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SYNOPSIS OF THE ROTATORIA

BY

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Since 1902 a series of octavo volumes containing papers relating to the botanical collections of the Museum, and known as the *Contributions from the National Herbarium*, has been published as bulletins.

The present work forms No. 81 of the *Bulletin* series.

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Assistant Secretary, Smithsonian Institution,
In charge of the United States National Museum.

WASHINGTON, D. C., June 2, 1913.

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SYNOPSIS OF THE ROTATORIA.

By Harry K. Harring,

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INTRODUCTION.

It has almost become established practice to preface every contribution to the knowledge of the Rotatoria with a complaint against the inextricable nomenclature. When the writer started work on the group some years ago, and as a preliminary step catalogued the known species, it was found that nearly all the necessary literature was on file in Washington libraries. This requisite being at hand, it seemed that by going over the entire class and bringing Rotatorian nomenclature into agreement with the International Code, the much-needed zoological revision of smaller groups would be greatly facilitated. No pretense is made here to alleviate the zoological difficulties, except in so far as this may be done by determining the types of the genera now in use or proposed in the past.

Names proposed for units of less than specific rank have as a rule been thrown into synonymy. Usually such names have been introduced for bionomic, ethologic, seasonal, or periodic variants; as these are not at present recognized in zoological nomenclature, no other course seemed open. A definite term for such forms is desirable, and as Semenov [1] has recently proposed the designation "morpha" for these, it would be well to adopt it, with the explicit understanding that, while written in Latin form, it is to be disregarded nomenclatorially, so that even though a unit originally proposed as a "morpha" should later prove of specific value, its "morpha" name should not be accorded priority. This is suggested because it is likely that a number of such names may be required, and numerous intergradations are probable, and it might be difficult, if not impossible, to determine which one had priority. These variants are not subspecies as this term is now understood. All the evidence up to the present indicates a remarkable constancy of specific characters; wherever a rotifer is found it is morphologically identical with repre-

[1] A. Semenov Tian-Shansky, Die taxonomischen Grenzen der Art und ihrer Unterabteilungen. Versuche einer genauen Definition der untersten systematischen Kategorien. Berlin, 1910.

sentatives of the same species from any other part of the world. If variants occur in one region they will, as far as we know, be repeated in any locality where the determining conditions are found.

As "insufficiently described" are listed species that can not be definitely placed on the information at present available; the majority of these are hopeless, but it is possible that some may still prove valid. While apparently very vague, a description may nevertheless contain some clue that will enable us to identify the species when it is found again. It would seem inadvisable, however, to revive old and forgotten names unless there is some definite reason for doing so; while new names should not be given to old species, it is almost equally confusing to attach new animals to rejected names.

The International Code of Zoological Nomenclature as it stands to-day has been rigorously applied throughout, as offering the only means of escape from the present chaotic condition. As a consequence, a number of changes have been introduced which will no doubt cause temporary inconvenience, but it is hoped the final gain will compensate for this. For references to Schrank, Briefe an Nau, I am indebted to Prof. Dr. Anton Collin, Berlin, and to Dr. P. de Beauchamp, Paris, for reference to Lauterborn, Nordische Plankton-Rotatorien. In all other cases the original descriptions have been consulted unless otherwise noted in the text.

No pains have been spared to make the work complete; still, in dealing with a literature of such extent it is to be expected that omissions may have occurred.

A bibliographic list has been added, and as far as possible it has been verified from the original publications. While many authors give a list of the papers to which they refer, it is probably not unfair to say that one-half of such references are either erroneous or incomplete, thus giving the reader endless trouble when he tries to verify the statements.

In this list is included a large amount of literature relating to distribution, morphology, technique, etc., without any attempt at completeness, except for works bearing on nomenclature. Where no library reference is given, the publication has not been consulted.

This undertaking would have been impossible but for the assistance of zoologists here in Washington and elsewhere. It is a pleasure to express my gratitude for help and advice from Dr. Paul Bartsch, Dr. Theodore Gill, Miss M. J. Rathbun, Dr. L. Stejneger, Dr. C. W. Stiles, of the United States National Museum, Washington; Dr. H. S. Jennings, Baltimore, Maryland; Dr. C. A. Kofoid, Berkeley, California; Dr. P. de Beauchamp, Paris; Dr. Anton Collin, Berlin; Dr. E. F. Weber, Geneva; Dr. A. Behning, Saratov; Dr. N. V. Voronkov, Moscow; and Dr. S. A. Zernov, Sevastopol.

CLASSIFICATION OF THE ROTATORIA.

Owing to the complete absence of paleontological records, the classification of the Rotatoria is a rather difficult problem. The phylogeny must be reconstructed by a comparative study of each single organ throughout the entire family or genus; no single species is known that still retains an unquestionably primitive organization. A *Notommata* has what is generally considered the simplest type of corona, but the mastax is highly specialized; on the other hand, an *Epiphanes* has the most primitive mastax, but the corona and all other organs have undergone profound changes. In the light of this, the subjoined arrangement must be considered tentative only and subject to change as more information becomes available.

Order PLOIMA.

Family NOTOMMATIDÆ.
- Subfamily NOTOMMATINÆ.
  - Genus *Notommata.*
  - *Taphrocampa.*
  - *Proales.*
  - *Pleurotrocha.*
  - *Eosphora.*
  - *Cephalodella.*
  - *Diaschiza.*
  - *Monommata.*
- Subfamily DICRANOPHORINÆ.
  - Genus *Dicranophorus.*
  - *Arthroglena.*
  - *Encentrum.*
  - *Albertia.*
  - *Balatro.*
  - *Drilophaga.*
  - *Enteroplea.*

Family EPIPHANIDÆ.
- Genus *Epiphanes.*
- *Rhinoglena.*
- *Cyrtonia.*
- *Proalides.*

Family MICROCODONIDÆ.
- Genus *Microcodon.*
- *Mikrocodides.*

Family BRACHIONIDÆ.
- Genus *Brachionus.*
- *Schizocerca.*
- *Platyias.*
- *Keratella.*
- *Notholca.*
- *Anuræopsis.*

Family MYTILINIDÆ.
- Genus *Mytilina.*

Family EUCHLANIDÆ.
- Genus *Euchlanis.*
- *Dipleuchlanis.*
- *Diplois.*

Family EUCHLANIDÆ—Contd.
- Genus *Lecane.*
- *Monostyla.*

Family LEPADELLIDÆ.
- Genus *Lepadella.*
- *Colurella.*
- *Squatinella.*

Family TRICHOTRIIDÆ.
- Genus *Trichotria.*
- *Macrochætus.*
- *Scaridium.*

Family TRICHOCERCIDÆ.
- Genus *Trichocerca.*
- *Diurella.*
- *Elosa.*

Family CHROMOGASTRIDÆ.
- Genus *Chromogaster.*

Family GASTROPODIDÆ.
- Genus *Gastropus.*
- *Ascomorpha.*

Family SYNCHÆTIDÆ.
- Genus *Synchæta.*
- *Parasynchæta.*

Family POLYARTHRIDÆ.
- Genus *Polyarthra.*
- *Anarthra.*

Family SPHYRIDÆ.
- Genus *Sphyrias.*

Family PLŒSOMIDÆ.
- Genus *Plœsoma.*

Family ASPLANCHNIDÆ.
- Genus *Asplanchna.*
- *Asplanchnopus.*
- *Harringia.*

Family TESTUDINELLIDÆ.
- Genus *Testudinella.*
- *Pompholyx.*

Family TROCHOSPHÆRIDÆ.
- Genus *Trochosphæra.*

Order FLOSCULARIACEA.

Family FLOSCULARIDÆ.
- Genus *Floscularia.*
- *Octotrocha.*
- *Limnias.*
- *Ptygura.*
- *Pseudœcistes.*
- *Sinantherina.*

Family FLOSCULARIDÆ—Contd.
- Genus *Lacinularia.*
- *Beauchampia.*

Family CONOCHILIDÆ.
- Genus *Conochilus.*
- *Conochiloides.*

Order COLLOTHECACEA.

Family COLLOTHECIDÆ.
- Genus *Collotheca.*
- *Stephanoceros.*

Family ATROCHIDÆ.
- Genus *Atrochus.*
- *Cupelopagis.*
- *Acyclus.*

Order BDELLOIDA.

Family ADINETIDÆ.
- Genus *Adineta.*
- *Bradyscela.*

Family PHILODINAVIDÆ.
- Genus *Philodinavus.*

Family PHILODINIDÆ.
- Subfamily PHILODININÆ.
- Genus *Philodina.*
- *Rotaria.*
- *Macrotrachela.*
- *Pleuretra.*

Family PHILODINIDÆ—Continued.
- Genus *Dissotrocha.*
- *Embata.*
- *Abrochtha.*
- *Mniobia.*
- *Anomopus.*
- *Zelinkiella.*
- Subfamily HABROTROCHINÆ.
- Genus *Habrotrocha.*
- *Scepanotrocha.*
- *Ceratotrocha.*

Order SEISONACEA.

Family SEISONIDÆ.
- Genus *Seison.*
- *Saccobdella.*

Family SEISONIDÆ—Continued.
- Genus *Paraseison.*

ALPHABETIC ARRANGEMENT OF GENERA, WITH INCLUDED SPECIES.

Genus ABROCHTHA Bryce.

Abrochtha Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.
Type (monotype).—*Abrochtha intermedia* (de Beauchamp)=*Philodina intermedia* de Beauchamp.

ABROCHTHA INTERMEDIA (de Beauchamp).

Philodina intermedia de Beauchamp, Bull. Soc. Zool. France, vol. 34, 1909, p. 75, text fig.
Abrochtha intermedia Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.

[1]ACANTHODACTYLUS Tessin.

Acanthodactylus Tessin, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 152; not *Acanthodactylus* Wiegmann [Herpetologia Mexicana, p. 10 (=Fitzinger, manuscript name)], 1834, Reptilia.

Genus ACYCLUS Leidy.

Acyclus Leidy, Proc. Acad. Nat. Sci. Philadelphia, 1882, p. 245.
Type (monotype).—*Acyclus inquietus* Leidy.

ACYCLUS INQUIETUS Leidy.

Acyclus inquietus Leidy, Proc. Acad. Nat. Sci. Philadelphia, 1882, p. 245, pl. 2, figs. 1–6.

ACYCLUS TRILOBUS (Lucks).

Hyalocephalus trilobus Lucks, Zool. Anz., vol. 38, 1911, p. 568, text fig. Type (monotype) of genus *Hyalocephalus* Lucks, 1911.
Acyclus trilobus de Beauchamp, Bull. Soc. Zool. France, vol. 37, 1912, p. 247.

ADACTYLA Barrois and Daday.

Adactyla Barrois and Daday, Math. Term. Ért., vol 12, 1894, p. 227; not *Adactyla* Zeller, 1841, Lepidoptera.

Genus ADINETA Hudson.

Adineta Hudson, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 112=*Planotrochus* Plate, Zeitschr. Wiss. Zool., vol. 43, 1886, p. 235.
Type (monotype).—*Adineta vaga* (Davis)=*Callidina vaga* Davis.

Dalla Torre, in Zeitschr. des Ferdinandeums, ser. 3, vol. 33, 1889, p. 244, footnote to *Adineta vaga*, makes the following statement:

Der Name *Adineta* Hudson scheint für diese Art hier 1886 zum ersten Male aufgestellt und angewendet worden zu sein, wobei dem Autor wohl entgangen sein mag, dass bereits vor zwölf Jahren Plate im Monthl. Micr. Jour., vol. 9, 1873, p. 235, Nota, für dieselbe den Gattungsnamen *Planotrochus* aufgestellt hat. Freilich fehlt dieser Name sow. im Zool. Record, 1873, als auch in Scudder, 1882.

The reference cited proved on comparison erroneous. I am indebted to Mr. James Murray for the correct citation as well as the information that Hudson's name *Adineta* antedates the publication of Plate's *Planotrochus* by about one month.

ADINETA BARBATA Janson.

Adineta barbata Janson, Uebers. Rot.-Fam. Philodinäen, 1893, p. 74, pl. 5, figs. 70, 71, 78.

ADINETA GRACILIS Janson.

Adineta gracilis Janson, Uebers. Rot.-Fam. Philodinäen, 1893, p. 77, pl. 5, figs. 76, 77.

[1] Those titles that do not carry the word genus, do not belong to the Rotatoria or are invalid through homonymy, synonymy, or insufficient description of the type.

ADINETA GRANDIS Murray.

Adineta grandis Murray, British Antarctic Exped., vol. 1, 1910, p. 51, pl. 12, fig. 10.

ADINETA LONGICORNIS Murray.

Adineta longicornis Murray, Journ. Royal Micr. Soc., 1906, p. 643, pl. 18, fig. 5.

ADINETA OCULATA (Milne).

Callidina oculata Milne, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 141, pl. 2, figs. 5, 10.
Adineta oculata Hudson and Gosse, Rotifera, Suppl., 1889, p. 12.
Adineta alluaudi Certes, Mem. Accad. Pont. Lincei, vol. 21, 1903, p. 277.

ADINETA TUBERCULOSA Janson.

Adineta tuberculosa Janson, Uebers. Rot.-Fam. Philodinäen, 1893, p. 73, pl. 5, figs. 72–75.

ADINETA VAGA (Davis).

Callidina vaga Davis, Monthly Micr. Journ., vol. 9, 1873, p. 201, pl. 14.
Adineta vaga Hudson and Gosse, Rotifera, 1886, vol. 1, p. 112, pl. 10, fig. 10.
Adineta vaga major Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 146.

Genus ALBERTIA Dujardin.

Albertia Dujardin, Ann. Sci. Nat., ser. 2, vol. 10, 1838, p. 175; not *Albertia* Rondani, 1843, Diptera; not *Albertia* Thomson, 1878, Cœlenterata.
Type (monotype).—*Albertia vermiculus* Dujardin.

ALBERTIA ACILIATA Radkewitsch.

Albertia aciliata Radkewitsch, Trudy Obshch. Îestestvoisp. Prir. Kharkovsk. Univ., vol 1. (for 1869), 1870, No. 4, p. 4, pl. 7, figs. 8–10.

ALBERTIA BERNARDI Hlava.

Albertia bernardi Hlava, Zool. Anz., vol. 28, 1905, p. 356, text figs.

ALBERTIA CRYSTALLINA Schultze.

Albertia crystallina Schultze, Beitr. Naturg. Turbell., 1851, p. 69, pl. 7, figs. 13–17.

ALBERTIA INTRUSOR Gosse.

Albertia intrusor Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 15, pl. 17, fig. 13.

ALBERTIA NAIDIS Bousfield.

Albertia naidis Bousfield, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 16, pl. 17, fig. 14.

ALBERTIA VERMICULUS, Dujardin.

Albertia vermiculus Dujardin, Ann. Sci. Nat., ser. 2, vol. 10, 1838, p. 175, pl. 2, figs. 1, 2.

AMPHIBOLIDINA Schmarda.

Amphibolidina Schmarda, only species *Amphibolidina megalotrocha* Schmarda, Denkschr. Akad. Wiss. Wien, vol. 1, 1850, pt. 2, p. 13, pl. 4, fig. II, 1, 2; unrecognizable.

ANAPUS Bergendal.

Anapus Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 5, p. 1; not *Anapus* Stål, 1858, Hemiptera.

Genus ANARTHRA Hood.

Anarthra Hood, Proc. Royal Irish Acad., ser. 3, vol. 3, 1895, p. 672.
Type (monotype).—*Anarthra aptera* (Hood)=*Polyarthra aptera* Hood.

ANARTHRA APTERA (Hood).

Polyarthra aptera Hood, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 281, pl. 12, fig. 2.
Anarthra aptera Hood, Proc. Royal Irish Acad., ser. 3, vol. 3, 1895, p. 672, pl. 21, fig. 1.

ANELCODISCUS Leidy.

Anelcodiscus Leidy, only species *Anelcodiscus pellucidus* Leidy, Proc. Acad. Nat. Sci. Philadelphia (for 1850–1851), 1852, p. 287; insufficiently described.

Genus ANOMOPUS Piovanelli.

Anomopus Piovanelli, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1903, p. 522.
Type (monotype).—*Anomopus telphusæ* Piovanelli.

ANOMOPUS TELPHUSÆ Piovanelli.

Anomopus telphusæ Piovanelli, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1903, p. 522.

ANTHOS Schoch.

Anthos Schoch, only species *Anthos quadrilobus* Schoch, Mikr. Thiere Süssw.-Aquar., 1868, pt. 2, p. 20, pl. 3, fig. 4; unrecognizable.

Genus ANURÆOPSIS Lauterborn.

Anuræopsis Lauterborn, Verh. Naturh.-Med. Ver. Heidelberg, n. ser., vol. 6, 1900, p. 441.
Type (monotype).—*Anuræopsis fissa* (Gosse) as *hypelasma* (Gosse) = *Anuræa fissa* Gosse.

ANURÆOPSIS FISSA (Gosse).

Anuræa fissa Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 202.
Anuræa hypelasma Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 123, pl. 29, fig. 6=*Anuræa fissa* renamed.
Anuræopsis hypelasma Lauterborn, Verh. Naturh.-Med. Ver. Heidelberg, n. ser., vol. 6, 1900, p. 441, footnote.

ANURÆOPSIS NAVICULA Rousselet.

Anuræopsis navicula Rousselet, Zool. Jahrb., Syst., vol. 29, 1910, p. 669, fig. E.

APÆCIA.

Apæcia amelia, original description not located; mentioned by Jennings, Bull. U. S. Fish Comm., vol. 19 (for 1899), 1900, p. 78.

APODOIDES Joseph.

Apodoides Joseph, only species *Apodoides stygius* Joseph, Zool. Anz., vol. 2, 1879, p. 62; insufficiently described.

APSILUS Metschnikov.

Apsilus Metschnikov, Zeitschr. Wiss. Zool., vol. 16, 1866, p. 346; not *Apsilus* Cuvier and Valenciennes, 1830, Pisces.

APUS Schoch.

Apus Schoch, Mikr. Thiere Süssw.-Aquar., 1868, pt. 2, p. 22; not *Apus* Scopoli, 1777, Aves.

Genus ARTHROGLENA Bergendal.

Arthroglena Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 96.
Type (monotype).—*Arthroglena lütkeni* Bergendal.

ARTHROGLENA LÜTKENI Bergendal.

Arthroglena lütkeni Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 96, pls. 5, 6, fig. 30.

ARTHROGLENA ROSTRATA (Dixon-Nuttall and Freeman).

Arthroglena rostrata v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 21, fig. 3.

This species appears to be totally different from *Diglena rostrata* Dixon-Nuttall and Freeman, which is given as a synonym.

Genus ASCOMORPHA Perty.

Ascomorpha Perty, Mitth. Nat. Ges. Bern, 1850, p. 18=*Sacculus* Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 198.
Type (monotype).—*Ascomorpha ecaudis* Perty.

ASCOMORPHA EUCADIS Perty.

Ascomorpha ecaudis Perty, Mitth. Nat. Ges. Bern, 1850, p. 18.
Sacculus viridis Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 198. Type (monotype) of genus *Sacculus* Gosse, 1851.
Ascomorpha helvetica Perty, Zur Kenntn. kleinst. Lebensf., 1852, p. 39, pl. 2, fig. 1= *Ascomorpha ecaudis* renamed.
Ascomorpha germanica Leydig, Zeitschr. Wiss. Zool., vol. 6, 1854, p. 45, pl. 3, fig. 34.
Sacculus germanicus Hudson and Gosse, Rotifera, Suppl., 1889, p. 17, pl. 32, fig. 25.
Ascomorpha agilis Zacharias, Forschungsber. Biol. Stat. Plön, vol. 1, 1893, p. 22. pl. 1, fig. 3.

ASCOMORPHA MINIMA v. Hofsten.

Ascomorpha minima v. Hofsten, Ark. Zool. Stockholm, vol. 6, No. 1, 1909, p. 88. fig. 22.

ASCOMORPHA SALTANS Bartsch.

Ascomorpha saltans Bartsch, Jahresh. Ver. Naturk. Württemberg, vol. 26, 1870, p. 364.
? *Sacculus hyalinus* Kellicott, Proc. Amer. Soc. Micr., vol. 10, 1888, p. 92, fig.
Sacculus saltans Hudson and Gosse, Rotifera, Suppl., 1889, p. 16, pl. 32, fig. 24.
? *Ascomorpha hyalina* Jennings, Amer. Naturalist, vol. 35, 1901, p. 738, pl. 3, fig. 56.

Western, in Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 427–428, suggests that *Sacculus hyalinus* is founded on young specimens of *Ascomorpha saltans*. There seems to be nothing in Kellicott's description to disprove this view. Like a few other species of Rotatoria, *Ascomorpha saltans* harbors symbiotic Zoochlorellæ, that give a green color to the body of the fullgrown animal; the young are, however, hyaline.

ASCOMORPHA VOLVOCICOLA (Plate).

Hertwigia volvocicola PLATE, Jenaische Zeitschr. Naturwiss., vol. 19, 1886, p. 26, pl. 1, figs. 7, 8.

Proales parasita HUDSON and GOSSE, Rotifera, 1886, vol. 2, p. 39, pl. 18, fig. 11; not *Proales parasita* (Ehrenberg).

Hertwigia parasita HOOD, Proc. Royal Irish Acad., ser. 3, vol. 3, 1895, p. 680; not *Proales parasita* (Ehrenberg).

Insufficiently described:

Ascomorpha amygdalum ZACHARIAS, Forschungsber. Biol. Stat. Plön, vol. 1, 1893, p. 22.

Genus ASPLANCHNA Gosse.

Asplanchna GOSSE, Ann. Mag. Nat. Hist., ser. 2, vol. 6, 1850, p. 18.
Type (by present designation).—*Asplanchna priodonta* Gosse.

The arrangement here given is little more than the traditional one. As a consequence of the work of Powers and his as yet unpublished experiments, the results of which were kindly communicated to me by him, it is quite evident the whole genus will have to be recast.

ASPLANCHNA BRIGHTWELLII Gosse.

Asplanchna brightwellii GOSSE, Ann. Mag. Nat. Hist., ser. 2, vol. 6, 1850, p. 23.

Asplanchna bowesii GOSSE, Ann. Mag. Nat. Hist., ser. 2, vol. 6, 1850, p. 23.

Ascomorpha anglica PERTY, Zur Kenntn. kleinst. Lebensf., 1852, p. 39.

Notommata anglica LEYDIG, Zeitschr. Wiss. Zool., vol. 6, 1854, p. 64. Used by Leydig without any diagnosis and without being credited to Perty, but apparently = *Ascomorpha anglica* Perty.

Apus anglica SCHOCH, Mikr. Thiere Süssw.-Aquar., 1868, pt. 2, p. 22.

? *Asplanchna imhofi* DE GUERNE, Camp. Sci. *L'Hirondelle*, 3me ann., 1888, p. 50, text fig.

Asplanchna girodi DE GUERNE, Camp. Sci. *L'Hirondelle*, 3me ann., 1888, p. 54, text fig.

Asplanchna amphora HUDSON, Hudson and Gosse, Rotifera, Suppl., 1889, p. 13.

Asplanchna ceylonica DADAY, Math. Term. Ért., vol. 16, 1898, p. 92.

Asplanchna brightwellii ceylonica DADAY, Term. Füz., vol. 21, 1898, Anhangsh., p. 10, fig. 1.

ASPLANCHNA HERRICKII de Guerne.

Asplanchna herrickii DE GUERNE, Camp. Sci. *L'Hirondelle*, 3me ann., 1888, p. 52, fig.

ASPLANCHNA INTERMEDIA Hudson.

Asplanchna intermedia HUDSON, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 122, footnote.

? *Asplanchna cincinnatiensis* TURNER, Bull. Denison Univ., vol. 6, 1892, p. 59, pl. 1, figs. 4, 5.

ASPLANCHNA PRIODONTA Gosse.

Asplanchna priodonta GOSSE, Ann. Mag. Nat. Hist., ser. 2, vol. 6, 1850, p. 18, pls. 1, 2.

Asplanchna helvetica IMHOF, Zeitschr. Wiss. Zool., vol. 40, 1884, p. 171, pl. 10, figs. 4, 5.

Asplanchna krameri DE GUERNE, Camp. Sci. *L'Hirondelle*, 3me ann., 1888, p. 53, fig.

Asplanchna priodonta pelagica ZACHARIAS, Zool. Anz., vol. 15, 1892, p. 459.

Asplanchna priodonta helvetica LANGHANS, Sitzungsber. "Lotos," Prag, vol. 53, 1905, p. 178, fig. 2.

Asplanchna priodonta henrietta LANGHANS, Arch. Hydrobiol., vol. 1, 1906, p. 463, figs.

Asplanchna priodonta minor VORONKOV, Trudy Otd. Ikht. Obshch. Akklim., vol. 6, 1907, p. 86, pl. 6, figs. 13–15.

ASPLANCHNA SIEBOLDII (Leydig).

Notommata sieboldii Leydig, Zeitschr. Wiss. Zool., vol. 6, 1854, p. 24, pl. 2, figs. 15–17.
Apus sieboldii Schoch, Mikr. Thiere Süssw.-Aquar., 1868, pt. 2, p. 22, pl. 4, figs. 6, 7.
Asplanchna sieboldii Eyferth, Einf. Lebensf., 1878, p. 94.
Asplanchna ebbesbornii Hudson, Jour. Royal Micr. Soc., 1883, p. 621, pls. 9, 10.
Asplanchna hungarica Daday, Math. Term. Ért., vol. 9, 1891, p. 250, pl. 4, figs. 8, 9, 11.
Asplanchna sieboldii leydigii Lange, Zool. Anz., vol. 38, 1911, p. 440, figs.
Asplanchna sieboldii ebbesbornii Lange, Zool. Anz., vol. 38, 1911, p. 440, figs.

ASPLANCHNA SILVESTRII Daday.

Asplanchna silvestrii Daday, Term. Füz., vol. 25, 1902, p. 438, fig. 1.

Doubtful species:

Asplanchna syringoides Plate, Zeitschr. Wiss. Zool., vol. 49, 1889, p. 2.
Asplanchna triophthalma Daday, Math. Term. Ért., vol. 1, 1883, p. 292.

Genus ASPLANCHNOPUS de Guerne.

Asplanchnopus de Guerne, Camp. Sci. *L'Hirondelle*, 3me ann., 1888, p. 57.
Type (monotype).—*Asplanchnopus multiceps* (Schrank)=*Brachionus multiceps* Schrank.

ASPLANCHNOPUS MULTICEPS (Schrank).

Brachionus multiceps Schrank, Naturforscher, vol. 27, 1793, p. 30, pl. 3, figs. 16–19.
Notommata myrmeleo Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 214.
Asplanchna myrmeleo Eyferth, Einf. Lebensf., 1878, p. 82.
Asplanchna magnificus Herrick, Bull. Denison Univ., vol. 1, 1885, p. 60, pl. 2, fig. 2.
Asplanchnopus multiceps de Guerne, Camp. Sci. *L'Hirondelle*, 3me ann., 1888, p. 57.
Asplanchnopus myrmeleo Hudson and Gosse, Rotifera, Suppl., 1889, p. 15, pl. 32, fig. 13.
Asplanchna papuana Daday, Math. Term. Ért., vol. 15, 1897, p. 132, fig. 1.

Doubtful species:

Asplanchnopus syrinx (Ehrenberg).
Notommata syrinx Ehrenberg, Abh. Akad. Wiss. Berlin (for 1835), 1837, p. 169.
Asplanchna syrinx Eyferth, Einf. Lebensf., 1878, p. 82.
Asplanchnopus syrinx Hudson and Gosse, Rotifera, Suppl., 1889, p. 16, pl. 34, fig. 37.

Genus ATROCHUS Wierzejski.

Atrochus Wierzejski, Bull. Acad. Sci. Cracovie (for 1892), 1893, p. 404.
Type (monotype).—*Atrochus tentaculatus* Wierzejski.

ATROCHUS TENTACULATUS Wierzejski.

Atrochus tentaculatus Wierzejski, Bull. Acad. Sci. Cracovie (for 1892), 1893, p. 404.

Genus BALATRO Claparède.

Balatro Claparède, Ann. Sci. Nat., Zool., ser. 5, vol. 8, 1867, p. 12.
Type (monotype).—*Balatro calvus* Claparède.

BALATRO ANGUIFORMIS Issel.

Balatro anguiformis Issel, Arch. Zool., Napoli, vol. 2, 1904, p. 2, pl. 1, figs. 1–5.

BALATRO CALVUS Claparède.

Balatro calvus Claparède, Ann. Sci. Nat., Zool., ser. 5, vol. 8, 1867, p. 12, pl. 4, figs. 3, 4.

BEAUCHAMPIA, new genus.

Type (monotype).—*Beauchampia crucigera* (Dutrochet)=*Rotifer crucigere* Dutrochet.

BEAUCHAMPIA CRUCIGERA (Dutrochet).

Rotifer crucigere Dutrochet, Ann. Mus. Hist. Nat., vol. 19, 1812, p. 385, pl. 18, figs. 19–21.
Melicerta crucigera Goldfuss, Handb. Zool., 1820, p. 76.
Cephalosiphon limnias Gosse, Int. Obs., vol. 1, 1862, p. 49, text figs.
Melicerta cephalosiphon Gosse, Int. Obs., vol. 1, 1862, p. 490.
Cephalosiphon candidus Hudson, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 79.
Cephalosiphon cruciger Hlava, Vířníci Čeští, Arch. Přír. Prozk. Čech, vol. 13, No. 2, 1904, p. 55, text fig.
Cephalosiphon cruciger candidus Hlava, Vířníci Čeští, Arch. Přír. Prozk. Čech, vol. 13, No. 2, 1904, p. 56.

It is, to say the least, somewhat remarkable, that this species should be the subject of so many nomenclatorial changes, without any one ever taking the trouble to look up the supposed original description by Ehrenberg. If this had been done, much annoyance would have been avoided. No one at all acquainted with rotifers could fail to recognize in this description the species described as *Limnias annulatus* by Bailey, and by Weisse seven years earlier as *Limnias melicerta*, with an excellent figure, in Bull. phys.-math. Acad. Sci. St. Petersburg, vol. 6, 1848, p. 357, fig. 1–5; Ehrenberg himself, in Monatsber. Akad. Wiss. Berlin, 1853, p. 529, acknowledges the priority of Weisse's name, retaining his own generic name. The passage is given in full below.

> 21. *Cephalosiphon Melicerta.* Haec forma quae *Cephalos. Limnias* a me vocata erat (vide Monatsber. 1853, p. 187) a Weissio Petropolitano illustre medico et oculatissimo naturae investigatore prius Petropoli observata est eaque picta exstat in Ephemeridibus: Bulletin de la Classe physico mathematique de l'Acad. des sci. de St. Petersbourg. Tom. VI. No. 23. Anni 1847. Cum Vir illustris nomen *Limniades Melicertae* dederit, meum serius datum nomen, *Cephalosiphon Limnias*, servato a me dato generico novo nomine, in *Cephalosiphonis Melicertae* nomen cum Synonymo petropolitano mutandum erit. Caeterum quae de strictura penitiore dixi cognitionem animalculi, praeter novam geographicam ejus conditionem, auxerunt. (Monatsber. 1853, p. 529.)

As the species in question is without a generic name, I take pleasure in naming it for Dr. P. de Beauchamp, to whom every student of the Rotatoria must forever be in debt for his monumental Recherches sur les Rotifères.

BOTHRIOCERCA Eichwald.

Bothriocerca Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 20, pt. 2, 1847, p. 354.
Type (monotype).—*Bothriocerca affinis* Eichwald; unrecognizable.

Bothriocerca affinis Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 20, pt. 2, 1847, p. 354, pl. 9, fig. 9.
Bothriocerca longicauda Daday, Ért. Term. Kör., vol. 19, 1890, No. 17, p. 20, pl. 2, fig. 14.

Genus BRACHIONUS Pallas.

Brachionus Pallas, Elench. Zooph., 1766, p. 89=*Noteus* Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48.
Type (by present designation).—*Brachionus capsuliflorus* Pallas.

BRACHIONUS ANGULARIS Gosse.

Brachionus angularis Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 203.
Brachionus testudo Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1853, pp. 190, 193.
Brachionus syenensis Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, 1854, pt. 2, p. 14, pl. 4, fig. 3.
Brachionus minimus Bartsch, Rotat. Hungariæ, 1877, pp. 49, 52, pl. 1, figs. 7, 8.
Brachionus bidens Plate, Jenaische Zeitschr. Naturw., vol. 19, 1886, p. 72, pl. 3, fig. 30.
Brachionus pyriformis Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 238, pl. 7, figs. 23, 24; not *Brachionus pyriformis* Pallas, 1766.
Brachionus papuanus Daday, Math. Term. Ért., vol. 15, 1897, p. 142, fig. 9.
Brachionus urceolaris angulatus Seligo, Unters. Stuhmer Seen, 1900, p. 61, pl. 9, fig. 9.

BRACHIONUS ANGULARIS CAUDATUS Barrois and Daday.

Brachionus caudatus Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 232, pl. 7, figs. 9, 10, 13.
Brachionus angularis bidens Hempel, Bull. Illinois State Lab., vol. 5, 1899, p. 381, fig. 5.
? *Brachionus lyratus* Shephard, Proc. Royal Soc. Victoria, n. ser., vol. 24, 1911, p. 57, pl. 21, figs. 5, 6; not *Brachionus* (*falcatus*) *lyratus* Lemmermann, 1908.

BRACHIONUS BUDAPESTINENSIS Daday.

Brachionus budapestinensis Daday, Term. Füz., vol. 9, 1885, pp. 131, 211, pl. 11, figs. 1–4, 9, 10.
Brachionus quadridentatus Kertész, Budapest Rotat. Faun., 1894, p. 50, pl. 1, fig. 4; not *Brachionus quadridentatus* Hermann, 1783.
Brachionus punctatus Hempel, Bull. Illinois State Lab., vol. 4, 1896, p. 311, pl. 23, figs. 3–5.
Brachionus lineatus Skorikov, Trav. Soc. Natural. Charkov, vol. 30, 1896, p. 350, pl. 8, fig. 26.
Brachionus budapestinensis punctatus Daday, Sitzungsber. Akad. Wiss. Wien, vol. 112, 1903, Abt. 1, p. 149.

BRACHIONUS CALYCIFLORUS Pallas.

Brachionus calyciflorus Pallas, Elench. Zooph., 1766, p. 93.
Brachionus longispinus Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 133.
Brachionus bicornis Bory de St. Vincent, Class. Anim. Micr., 1826, p. 83; not *Brachionus bicornis* Schrank, 1803.
Anuræa palea Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48. Type (monotype) of genus *Anuræa* Ehrenberg, 1830.

Brachionus palea Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 146, pl. 3, fig. 8.

Brachionus pala Ehrenberg, Infusionsth., 1838, p. 511, pl. 63, fig. 1; not *Brachionus pala* Müller, 1786.

Brachionus amphiceros Ehrenberg, Infusionsth., 1838, p. 511, pl. 63, fig. 2.

Anuræa divaricata Weisse, Bull. Phys.-Math. Acad. Sci. St. Petersburg, vol. 4, 1845, p. 142, pl. 2, figs. 13, 14.

Brachionus diacanthus Schmarda, Denkschr. Akad. Wiss. Wien, vol. 1, pt. 2, 1850, p. 14, pl. 4, fig. 4.

Brachionus oön Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 202.

Brachionus dorcas Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 203.

Arthracanthus quadriremis Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, pt. 2, 1854, p. 12, pl. 5, fig. 1. Type (by original designation) of genus *Arthracanthus* Schmarda, 1854.

Arthracanthus biremis Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, pt. 2, 1854, p. 22, pl. 6, fig. 5.

Arthrocanthus quadriremis Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 66. Type (by present designation) of genus *Arthrocanthus* Schmarda, 1859.

Arthrocanthus biremis Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 66.

Brachionus margói Daday, Math. Term. Ért., vol. 1, 1883, p. 290.

Brachionus lotharingius Imhof, Zool. Anz., vol. 8, 1885, p. 722.

Brachionus decipiens Plate, Jenaische Zeitschr. Naturw., vol. 19, 1886, p. 73.

Brachionus dorcas spinosus Wierzejski, Bull. Soc. Zool. France, vol. 16, 1891, p. 52, fig. 4.

Brachionus pentacanthus Francé, Term. Füz., vol. 17, 1894, pp. 118, 172, pl. 5, figs. 3, 4.

Brachionus tetracanthus Collin, Deutsch-Ost-Afrika, vol. 4, No. 15, 1897, p. 7, fig. 8.

Brachionus quadricornis Meissner, Compt. Rend. Stat. Biol. du Volga (for 1901), 1902, p. 34, pl. 11, fig. 17; not *Brachionus quadricornis* Schrank, 1803.

Brachionus amphiceros borgerti Apstein, Zool. Jahrb., Syst., vol. 25, 1907, p. 211, fig.

Brachionus pala willeyi Apstein, Zool. Jahrb., Syst., vol. 25, 1907, p. 213, fig.

Brachionus pala anuræiformis Brehm, Arch. Hydrobiol., vol. 4, 1909, p. 210.

Brachionus anuræiformis Brehm, Arch. Hydrobiol., vol. 4, 1909, p. 210, fig.

BRACHIONUS CAPSULIFLORUS Pallas.

A multitude of names have been thrown into the synonymy of this species for the simple reason that they do not appear to be entitled to specific rank. *Brachionus capsuliflorus* Pallas is so variable, in fact, it is difficult to find two specimens alike, that to introduce names for each form would practically amount to giving individual names, a task of considerable magnitude. The presence or absence of a foot sheath has been suggested as a distinguishing characteristic between the two main lines, Ehrenberg's *Brachionus urceolaris* and *Brachionus bakeri*. Unfortunately, this is almost as variable as the spines and may be found in all stages of development. Added to this, Krätschmar's [1] recent experiments on the closely related genus *Keratella* (=*Anuræa*), seem abundant justification for the proposed union. If the form with posterior spines is to be separated, it must take the name *Brachionus quadridentatus* Hermann,

[1] Krätschmar, H., Ueber den Poylmorphismus von *Anuræa aculcata* Ehrbg. in Int. Rev. Hydrobiol., vol. 1, 1908, pp. 623–675.

as already pointed out by v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 96.

Brachionus capsuliflorus Pallas, Elench. Zooph., 1766, p. 91.

(*Tubipora urceus* Müller, Flora Fridrichsdalina, 1767, p. 238, is usually cited in the synonymy of this species; as it is without a word of description, an absolute *nomen nudum*, it must be treated as such; that is, ignored.)

Brachionus urceolaris Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 131; not *Vorticella urceolaris* Linnæus.

Brachionus quadridentatus Hermann, Naturforscher, vol. 19, 1783, p. 47, pl. 2, fig. 9.

Brachionus bakeri Müller, Anim. Infus., 1786, p. 359, pl. 47, fig. 13; pl. 50, figs. 22, 23.

Brachionus quadricornis Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 134.

Brachionus bicornis Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 135.

Brachionus octodentatus Bory de St. Vincent, Class. Anim. Micr., 1826, p. 83.

Noteus bakeri Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48. Type (monotype) of genus *Noteus* Ehrenberg, 1830.

Brachionus utricularis Bory de St. Vincent, Dict. Class. Hist. Nat.,' vol. 17, 1831, p. 102, fig.

Brachionus neglectus Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 17, 1831, p. 103, fig.

Brachionus brevispinus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 146.

Brachionus lyra Costa, Fauna Regno Napoli, Infusori, 1838, p. 20, pl. 3, fig. 1.

Brachionus costulatus Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 17, 1844, pt. 2, p. 698.

Brachionus latissimus Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, 1854, pt. 2, p. 18, pl. 4, fig. 4.

Brachionus longipes Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 64, pl. 15, fig. 133.

Brachionus nicaraguensis Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 64, pl. 15, fig. 134.

Brachionus jamaicensis Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 64, pl. 15, fig. 135.

Brachionus chilensis Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 64, pl. 15, fig. 136.

Brachionus ancylognathus Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 65, pl. 15, fig. 137.

Brachionus polyceros Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 65, pl. 15, fig. 138.

Brachionus pustulatus Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 65, pl. 15, fig. 139.

Brachionus polonskii Alenitzin, Trudy Sankt-Peterburgskago Obshch. Estest-voisp., vol. 5, 1874, p. XVIII.

Brachionus rubens Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 119, pl. 27, fig. 5; pl. A; not *Brachionus rubens* Ehrenberg, 1838.

Brachionus bidentata Anderson, Journ. Asiatic Soc. Bengal, vol. 58, 1889, pt. 2, p. 357, pl. 21, fig. 13.

Brachionus tuberculus Turner, Bull. Denison Univ., vol. 6, 1892, p. 65, pl. 1, fig. 6.

Brachionus rhenanus Lauterborn, Zool. Jahrb., Syst., vol. 7, 1893, p. 269, pl. 11, fig. 3.

Brachionus granulatus Kertész, Budapest Rotat. Faun., 1894, p. 51, pl. 1, fig. 5.

Brachionus reticulatus Kertész, Budapest Rotat. Faun., 1894, p. 51, pl. 1, fig. 6.

Brachionus melheni Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 233, pl. 7, figs. 18, 19.

Brachionus bursarius Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 235, pl. 7, fig. 20.

Brachionus obesus Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 236, pl. 7, figs. 21, 22.
Brachionus melhemi Barrois and Daday, Rev. Biol. Nord de la France, vol. 6, 1894, p. 400, pl. 5, figs. 18, 19.
Brachionus melhemi minor Barrois and Daday, Rev. Biol. Nord de la France, vol. 6, 1894, p. 403, text fig.
Brachionus entzii Francé, Term. Füz., vol. 17, 1894, p. 166, pl. 5, figs. 1, 2.
Brachionus cluniorbicularis Skorikov, Trav. Soc. Natural. Charkov, vol. 27, 1894, p. XXXIII.
Brachionus chavesi Barrois, Mém. Soc. Sci. Lille, ser. 5, fasc. 6, 1896, p. 124, figs. 5, 6.
Brachionus variabilis Hempel, Bull. Illinois State Lab., vol. 4, 1896, p. 310, pl. 22, figs. 1, 2.
Brachionus urceolaris armatus Seligo, Unters. Stuhmer Seen, 1900, p. 62, pl. 9, fig. 10.
Brachionus bakeri areolata Daday, Term. Füz., vol. 25, 1902, p. 205, fig.
Brachionus bakeri cornutus Daday, Zoologica, pt. 44, 1905, p. 121, pl. 7, fig. 8.
Brachionus bakeri anisitsi Daday, Zoologica, pt. 44, 1905, p. 365 (explanation of plates), pl. 7, fig. 8.
Brachionus bakeri zernowi Voronkov, Trudy Otd. Ikht. Obshch. Akklim., vol. 6, 1907, p. 115.
Brachionus bakeri inermis Daday, Math. Term. Ért., vol. 26, 1908, p. 35; not *Brachionus inermis* Schmarda, 1854.
Brachionus bakeri michaelseni Daday, Math. Term. Ért., vol. 26, 1908, p. 37.
Brachionus bakeri fülleborni Daday, Math. Term. Ért., vol. 26, 1908, p. 37.
Brachionus bakeri rectangularis Lucks, Rotatorienfauna Westpreussens, 1912, p. 140, text fig.

BRACHIONUS DICHOTOMUS Shephard.

Brachionus dichotomus Shephard, Proc. Royal Soc. Victoria, n. ser., vol. 24, 1911, p. 57, pl. 22, figs. 3, 4.

BRACHIONUS FALCATUS Zacharias.

Brachionus falcatus Zacharias, Forschungsber. Biol. Stat. Plön, vol. 6, 1898, p. 133, pl. 1, fig. 4.
Brachionus falcatus hamatus Lemmermann, Arch. Hydrobiol., vol. 3, 1908, p. 403, fig. 33.
Brachionus falcatus lyratus Lemmermann, Arch. Hydrobiol., vol. 3, 1908, p. 401, figs. 28–31, 34, 35.

BRACHIONUS FORFICULA Wierzejski.

Brachionus forficula Wierzejski, Bull. Soc. Zool. France, vol. 16, 1891, p. 51, fig. 3.
Brachionus forficula levis Apstein, Zool. Jahrb., Syst., vol. 25, 1907, p. 214, fig.

BRACHIONUS FURCULATUS Thorpe.

Brachionus furculatus Thorpe, Journ. Royal Micr. Soc., 1891, p. 302, pl. 6, fig. 3.
Brachionus furculatus inermis Rousselet, Journ. Royal Micr. Soc., 1906, p. 398, pl. 14, fig. 4; not *Brachionus inermis* Schmarda, 1854.
Brachionus furculatus testudinarius Jakubski, Zool. Anz., vol. 39, 1912, p. 547, text figs.

BRACHIONUS HAVANAENSIS Rousselet.

Brachionus havanaensis Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1911, p. 163, pl. 7, fig. 3.

BRACHIONUS LEYDIGII Cohn.

Brachionus leydigii Cohn, Zeitschr. Wiss. Zool., vol. 12, 1862, p. 215, pl. 22, figs. 1–3.
Brachionus quadratus Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1889, p. 32, pl. 4, figs. 3–5; not *Brachionus quadratus* Müller, 1786.

Brachionus quadratus tridentatus ZERNOV, Izv. Imp. Obshch. Lûb. ÎEst., Moskva, vol. 98, 1901, p. 31, pl. 4. figs. 19, 20.
Brachionus quadratus rotundus ROUSSELET, Journ. Quekett Micr. Club., ser. 2, vol. 10, 1907, p. 149, pl. 12, figs. 6–8.

BRACHIONUS MACROCANTHUS Jakubski.

Brachionus macrocanthus JAKUBSKI, Zool. Anz., vol. 39, 1912, p. 546, fig. 5.

BRACHIONUS MIRABILIS Daday.

Brachionus mirabilis DADAY, Math. Term. Ért., vol. 15, 1897, p. 140, fig. 8.

BRACHIONUS MIRUS Daday.

Brachionus mirus DADAY, Math. Term. Ért., vol. 23, 1905, p. 330.

BRACHIONUS MOLLIS Hempel.

Brachionus mollis HEMPEL, Bull. Illinois State Lab., vol. 4, 1896, p. 312, pl. 24, figs. 7, 8.

BRACHIONUS PATULUS Müller.

Brachionus patulus MÜLLER, Anim. Infus., 1786, p. 361, pl. 47, figs. 14, 15.
Noteus patulus EHRENBERG, Isis (Oken), vol. 26, 1833, col. 247.
Brachionus militaris EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 199.
Brachionus conium ATTWOOD, Amer. Monthly Micr. Journ., vol. 2, 1881, p. 102, fig.
? *Brachionus gleasonii* UP DE GRAFF, Microscope, vol. 2, 1882, p. 167.
? *Anuraea gleasonii* UP DE GRAFF, Proc. Amer. Soc. Micr., 6th ann. meeting, 1883, p. 117, fig.
Noteus militaris DADAY, Dritte Asiatische Forschungsr. Graf. Zichy, vol. 2, 1901, p. 454, pl. 24, figs. 7, 8.
Noteus militaris macracanthus DADAY, Zoologica, Heft 44, 1905, p. 119, pl. 7, figs. 3, 4.

BRACHIONUS PLICATILIS Müller.

Brachionus plicatilis MÜLLER, Anim. Infus., 1786, p. 344, pl. 50, figs. 1–8.
Tricalama plicatilis BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 84. Type (monotype) of genus *Tricalama* Bory de St. Vincent, 1826.
Lepadella plicatilis BORY DE ST. VINCENT, Enc. Méth. (pt. 2), 1827, p. 484.
Brachionus mülleri EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 200.
Brachionus hepatotomus GOSSE, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 203.
Brachionus spatiosus ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1912, p. 373, pl. 13, fig. 2.

BRACHIONUS POLYACANTHUS Ehrenberg.

Brachionus polyacanthus EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 201.
Noteus polyacanthus DADAY, Dritte Asiatische Forschungsr. Graf. Zichy, vol. 2, 1901, p. 455.

BRACHIONUS SATANICUS Rousselet.

Brachionus satanicus ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1911, p. 162, pl. 7, fig. 2.

BRACHIONUS SERICUS Rousselet.

Brachionus sericus ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 10, 1907, p. 147, pl. 11, figs. 1–5.

BRACHIONUS TRIDENS Hood.

Brachionus tridens HOOD, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 283, pl. 12, fig. 3.

BRACHIONUS URCEUS (Linnæus).

Tubipora urceus Linnæus, Syst. Nat., ed. 10, 1758, p. 796.
Vorticella urceolaris Linnæus, Syst. Nat., ed. 12, 1767, vol. 1, pt. 2, p. 1319.
Brachionus urceolaris Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 131.
Brachionus rubens Ehrenberg, Infusionsth., 1838, p. 513, pl. 63, fig. 4.
? *Brachionus rubens werneri* Daday, Sitzungsber. Akad. Wiss. Wien, vol. 112, 1903, Abt. 1, p. 151, pl. 1, fig. 1.
Brachionus urceus v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 93.

Doubtful, insufficiently described, or eliminated species:

Brachionus acinosus Pallas, Elench. Zooph., 1766, p. 100; not a rotifer.
Brachionus anastatica Pallas, Elench. Zooph., 1766, p. 99; not a rotifer.
Brachionus angusticollis Kertész, Budapest Rotat. Faun., 1894, p. 50, pl. 1, fig. 3.
Brachionus berberiformis Pallas, Elench. Zooph., 1766, p. 103; not a rotifer.
Brachionus bidentatus Kertész, Budapest Rotat. Faun., 1894, p. 49, pl. 1, fig. 2.
Brachionus campanulatus Pallas, Elench. Zooph., 1766, p. 97; not a rotifer.
Brachionus cernuus Pallas, Spicil. Zool., pt. 10, 1774, p. 37, pl. 4, fig. 10=*Pedicellina cernua* (Pallas); to Bryozoa.
Brachionus colombea Meyer, Mag. Phys. Naturg., vol. 6, 1790, p. 55; not a rotifer.
Brachionus cratægarius Pallas, Elench. Zooph., 1766, p. 101; not a rotifer.
Brachionus digitalis Pallas, Elench. Zooph., 1766, p. 104; not a rotifer.
Brachionus dubia Meyer, Mag. Phys. Naturg., vol. 6, 1790, p. 55; not a rotifer.
Brachionus inermis Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, 1854, pt. 2, p. 12, pl. 4, fig. 2.
Brachionus media Meyer, Mag. Phys. Naturg., vol. 6, 1790, p. 54; not a rotifer.
Brachionus muticus Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 139.
Brachionus nutans (Müller); not a rotifer.
Vorticella nutans Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 120.
Brachionus nutans Oken, Lehrb. Naturg., vol. 3, 1815, p. 50.
Brachionus operculatus Pallas, Elench. Zooph., 1766, p. 104; not a rotifer.
Brachionus parasites Meyer, Mag. Phys. Naturg., vol. 6, 1790, p. 55; not a rotifer.
Brachionus patagonicus Daday, Term. Füz., vol. 25, 1902, p. 205, pl. 2, fig. 2.
Brachionus pilosus Schrank, Beytr. Naturg., 1776, p. 111, pl. 4, fig. 32. (Reference from Ehrenberg; not a rotifer.)
Brachionus piscis (Müller); not a rotifer.
Trichoda piscis Müller, Anim. Infus., 1736, p. 214, pl. 31, figs. 1–4.
Brachionus piscis Blainville, Dict. Sci. Nat., vol. 60, 1830, p. 147.
Brachionus proteus Pallas, Elench. Zooph., 1766, p. 94; not a rotifer.
Brachionus pyriformis Pallas, Elench. Zooph., 1766, p. 102; not a rotifer.
Brachionus quadristriatus Kertész, Budapest Rotat. Faun., 1894, p. 49, pl. 1, fig. 1.
Brachionus ramosissimus Pallas, Elench. Zooph., 1766, p. 98; not a rotifer.
Brachionus togatus (Müller); not a rotifer.
Vorticella togata Müller, Anim. Infus., 1786, p. 294, pl. 42, fig. 8.
Furcularia togata Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 38.
Ratulus togatus Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 668.
Brachionus togata Blainville, Dict. Sci. Nat., vol. 60, 1830, p. 148.
Brachionus tuberosus Pallas, Elench. Zooph., 1766, p. 105; not a rotifer.

Genus BRADYSCELA Bryce.

Bradyscela Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 73.
Type (monotype).—*Bradyscela clauda* (Bryce)=*Adineta clauda* Bryce.

BRADYSCELA CLAUDA (Bryce).

Adineta clauda Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 150, pl. 11, fig. 1.
Bradyscela clauda Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 73.

BROCHOCERCA Werneck.

Brochocerca Werneck, Monatsber. Akad. Wiss. Berlin, 1841, p. 377; no species named.

CALLIDINA Ehrenberg.

Callidina Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48.
Type (monotype).—*Callidina elegans* Ehrenberg.

As the type of Ehrenberg's genus *Callidina* is insufficiently described, and, as shown conclusively by Bryce in his recent revision of the *Bdelloida*, is not congeneric with the species listed by him under that name, these have been transferred to the genus *Macrotrachela* Milne. As a consequence, the genus *Callidina* Ehrenberg becomes a harbor of refuge for a motley assemblage of doubtful and insufficiently described species.

Callidina bihamata Gosse, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 111, pl. 10, fig. 7.
Callidina cornuta Perty, Mitth. Naturf. Ges. Bern, 1850, p. 21.
Callidina elegans Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48.
Callidina elegans rosca Perty, Zur Kenntn. Kleinst. Lebensf., 1852, p. 43.
Callidina hexaodon Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1848, p. 380.
Callidina hexodonta (Bergendal).
Philodina hexodonta Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sec. 2, No. 4, p. 24.
Callidina hexodonta Murray, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 174, pl. 3, fig. 13.
Callidina holzingeri Zelinka, Zeitschr. Wiss. Zool., vol. 53, 1891, p. 44. pl. 6, fig. 132.
Callidina lævis Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sec. 2, No. 4, p. 29, pl. 1, fig. 5.
Callidina lejeuniæ Zelinka, Zeitschr. Wiss. Zool., vol. 53, 1891, p. 44, pl. 6, fig. 131.
Callidina lutea Zelinka, Zeitschr. Wiss. Zool., vol. 53, 1891, p. 2.
Callidina mülleri Zelinka, Zeitschr. Wiss. Zool., vol. 53, 1891, p. 44. pl. 6, fig. 124.
Callidina octodon Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1848, p. 380.
Callidina ornata Murray, Ann. Scottish Nat. Hist., 1902, p. 166, pl. 3.
Callidina pigra Gosse, Journ. Royal Micr. Soc., 1887, p. 4, pl. 2, fig. 14.
Callidina quadridens Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 113, pl. 8, fig. 2.
Calidina rediviva Ehrenberg, Infusionsth., 1838, p. 500.
Callidina socialis Kellicott, Proc. Amer. Soc. Micr., vol. 9, p. 91.
Callidina tentaculata Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sec. 2, No. 4, p. 30.
Callidina tetraodon Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1848, p. 380.
Callidina triodon Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1848, p. 380.

Genus CEPHALODELLA Bory de St. Vincent.

Cephalodella Bory de St. Vincent, Class. Anim. Micr., 1826, p. 43=*Diglena* Ehrenberg, Abh. Akad. Wiss. Berlin (for 1829), 1830, p. 8.
Type (by present designation).—*Cephalodella catellina* (Müller)=*Cercaria catellina* Müller.

CEPHALODELLA CATELLINA (Müller).

Cercaria catellina Müller, Anim. Infus., 1786, p. 130, pl. 20, figs. 12, 13.
Vorticella larva Müller, Anim. Infus., 1786, p. 286, pl. 40, figs. 1–3.
Furcocerca catellina Lamarck, Hist. Nat. Anim. sans Vert., vol. 1, 1815, p. 448.
Furcularia larva Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 37.
Cephalodella catellina Bory de St. Vincent, Class. Anim. Micr., 1826, p. 43.

Dicranophorus catellinus NITZSCH, Enc. Wiss. u. Künste, sect. 1, vol. 16, 1827, p. 68.
Diglena catellina EHRENBERG, Abh. Akad. Wiss. Berlin (for 1829), 1830, p. 8.
Type (monotype) of genus *Diglena* Ehrenberg, 1830.
? *Leiodina capitata* MORREN, Ann. Sci. Nat., vol. 21, 1830, p. 124, pl. 3, fig. 2.
Furcularia catellina BLAINVILLE, Dict. Sci. Nat., vol. 60, 1830, p. 152.
Typhlina furca EHRENBERG, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, pl. 1, figs. 17b, 2, 3.
Plagiognatha catellina DUJARDIN, Hist. Nat. Zooph., 1841, p. 652.
? *Plagiognatha hyptopus* DUJARDIN, Hist. Nat. Zooph., 1841, p. 653, pl. 21, fig. 8.
Diglena granularis WEISSE, Bull. Phys.-Math. Acad. St. Petersburg, vol. 8, 1849, col. 300.
? *Heterognathus diglenus* SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 52, pl. 12, fig. 107.

CEPHALODELLA FORFICULA (Ehrenberg).

Distemma forficula EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 139.
Furcularia forficula EHRENBERG, Infusionsth., 1838, p. 421, pl. 48, fig. 5.
Distemma læve EICHWALD, Bull. Soc. Imp. Nat. Moscou, vol. 20, 1847, pt. 2, p. 343, pl. 9, fig. 4.
Furcularia tubiformis KING, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 139, pl. 8, figs. 1–5.
Furcularia trihamata STENROOS, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 133, pl. 2, fig. 14.
Notops falcipes LINDER, Rev. Suisse Zool., vol. 12, 1904, p. 238, pl. 4, fig. 6.

Doubtful or insufficiently described species:

Cephalodella fœni BORY de St. VINCENT, Class. Anim. Micr., 1826, p. 44.
Diglena andesina SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 55, pl. 13, fig. 115.
Diglena aquila GOSSE, Journ. Royal Micr. Soc., 1887, p. 865, pl. 14, fig. 10.
Diglena capitata EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 138.
Diglena conura EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 206.
Diglena diadena SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 54, pl. 13, fig. 113.
Diglena dromius GLASSCOTT, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 84, pl. 7, fig. 4.
Diglena elongata GLASSCOTT, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 61, pl. 5, fig. 2.
Diglena gibber GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 49, pl. 19, fig. 7.
Diglena heterodon SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 52.
Diglena hudsoni GLASSCOTT, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 83, pl. 7, fig. 3.
Diglena longipes SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 55, pl. 13, fig. 114.
Diglena macrodonta SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 54, pl. 13, fig. 112.
Diglena pachida GOSSE, Journ. Royal Micr. Soc., 1887, p. 364, pl. 8, fig. 8.
Diglena revolvens GLASSCOTT, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 61, pl. 5, fig. 1.
Diglena rugosa GLASSCOTT, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 62, pl. 5, fig. 3.
Diglena suilla GOSSE, Journ. Royal Micr. Soc., 1887, p. 365, pl. 8, fig. 9.

Genus CERATOTROCHA Bryce.

Ceratotrocha BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 74.
Type (monotype).—*Ceratotrocha cornigera* (Bryce)=*Callidina cornigera* Bryce.

CERATOTROCHA CORNIGERA (Bryce).

Callidina cornigera BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 199, pl. 11, fig. 3.
Ceratotrocha cornigera BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 74.

CERCARIA Müller.

Cercaria Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 64.
Type (by present designation).—*Cercaria lemna* Müller. To Trematoda.

Cercaria lemna Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 67.

Genus CHROMOGASTER Lauterborn.[1]

Chromogaster Lauterborn, Zool. Jahrb., Syst., vol. 7, 1893, p. 266.
Type (monotype).—*Chromogaster testudo* Lauterborn.

CHROMOGASTER OVALIS (Bergendal).

Anapus ovalis Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 5, p. 1.
Sacculus cuirassis Hood, Int. Journ. Micr. Nat. Sci., vol. 13, 1894, p. 355, pl. 17, figs. 1–4.

CHROMOGASTER TESTUDO Lauterborn.

Chromogaster testudo Lauterborn, Zool. Jahrb., Syst., vol. 7, 1893, p. 266, pl. 11, figs. 7, 8.
Ascomorpha testudo Zacharias, Forschungsber. Biol. Stat. Plön, vol. 2, 1894, p. 84, pl. 2, fig. 4.
Anapus testudo Weber, Rev. Suisse Zool., vol. 5, 1898, p. 764, pl. 24, figs. 18, 19.

COCHLEARE Gosse.

Cochleare Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 111. Both of the species of this "genus" are evidently male rotifers, too insufficiently described to assign any definite position to them.

Cochleare staphylinus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 111, pl. 26, fig. 9.
Cochleare turbo Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 111, pl. 26, fig. 10.

COLLOTHECA, new genus.

Type.—*Collotheca campanulata* (Dobie)=*Floscularia campanulata* Dobie.

COLLOTHECA ALGICOLA (Hudson).

Floscularia algicola Hudson, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 54, pl. 1, fig. 3; pl. 2, fig. 1.
Floscularia ambigua minor Hudson, Hudson and Gosse, Rotifera, 1886, vol. 1, pl. 2, fig. 1.

COLLOTHECA AMBIGUA (Hudson).

Floscularia ambigua Hudson, Journ. Royal Micr. Soc., 1883, p. 163, pl. 4, fig. 1.

COLLOTHECA ANNULATA (Hood).

Floscularia annulata Hood, Sci. Goss., vol. 24, 1888, p. 9, figs.
? *Floscularia uniloba* Wierzejski, Bull. Acad. Sci. Cracovie (for 1892), 1893, p. 403.

COLLOTHECA ATROCHOIDES (Wierzejski).

Floscularia atrochoides Wierzejski, Zeitschr. Wiss. Zool., vol. 16, 1893, p. 312, fig.

[1] *Chromagaster* Cobb, 1894, Nematoda (Proc. Linn. Soc. New South Wales, ser. 2, vol. 8 (for 1893); actual date of publication April 13, 1894) is erroneously recorded as *Chromogaster* in Zool. Record, 1893. Lauterborn's name was published August 15, 1893.

COLLOTHECA CALVA (Hudson).

Floscularia calva HUDSON, Journ. Royal Micr. Soc., 1885, p. 610.

COLLOTHECA CAMPANULATA (Dobie).

? *Floscularia proboscidea* EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 207
Floscularia campanulata DOBIE, Ann. Mag. Nat. Hist., ser. 2, vol. 4, 1849, p. 233, pl. 6. figs. 1–3.

Floscularia proboscidea has repeatedly been used for this species, being supposed to have priority over *F. campanulata;* Ehrenberg's description and figure are, however, of such a character that any attempt at identifying them with any known species can be only guesswork pure and simple.

COLLOTHECA CONKLINI (Montgomery).

Floscularia conklini MONTGOMERY, Biol. Bull. Woods Hole, vol. 5, 1903, p. 233.

COLLOTHECA CORNUTA (Dobie).

Floscularia cornuta DOBIE, Ann. Mag. Nat. Hist., ser. 2, vol. 4, 1849, p. 233, pl. 6, figs. 4–6.
Floscularia appendiculata LEYDIG, Zeitschr. Wiss. Zool., vol. 6, 1854, p. 3, pl. 1, fig. 6.
Floscularia croatica TRGOVČEVIĆ, Rad Jugoslav. Akad., vol. 128, 1896, p. 122, pl. 1.

COLLOTHECA CORONETTA (Cubitt).

Floscularia coronetta CUBITT, Monthly Micr. Journ., vol. 2, 1869, p. 133, pl. 25.
Stephanoceros horatii CUBITT, Monthly Micr. Journ., vol. 6, 1871, p. 166.
Floscularia longilobata BARTSCH, Rotat. Hungariæ, 1877, p. 24, pl. 2, fig. 14.

COLLOTHECA CUCULLATA (Hood).

Floscularia cucullata HOOD, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 335, pl. 16, figs. 1–3.

COLLOTHECA CYCLOPS (Cubitt).

Floscularia cyclops CUBITT, Monthly Micr. Journ., vol. 6, 1871, p. 83, pl. 93.

COLLOTHECA DIADEMA (Petr).

Floscularia diadema PETR, Sitzungsber. Böhm. Ges. Wiss. Prag, 1890, p. 216, fig. 1.

COLLOTHECA DISCOPHORA (Skorikov).

Floscularia discophora SKORIKOV, Ann. Mus. Zool. St. Petersburg, vol. 8, 1903, p. XIX.

COLLOTHECA EDENTATA (Collins).

Floscularia edentata COLLINS, Sci. Goss., 1872, p. 10, fig.

COLLOTHECA EVANSONII (Anderson and Shephard).

Floscularia evansonii ANDERSON and SHEPHARD, Proc. Royal Soc. Victoria, n. ser., vol. 4, 1892, p. 70, pl. 12, fig. 1.

COLLOTHECA GOSSEI (Hood).

Floscularia gossei HOOD, Int. Journ. Micr. Nat. Sci., vol. 11, 1892, p. 73, pls. 6, 7.

COLLOTHECA HEPTABRACHIATA (Schoch).

Floscularia heptabrachiata SCHOCH, Vierteljahrsschr. Nat. Ges. Zürich, vol. 14, 1869, p. 221.
Floscularia regalis HUDSON, Journ. Royal Micr. Soc., 1883, p. 166, pl. 4, fig. 3.

COLLOTHECA HOODII (Hudson).

Floscularia hoodii HUDSON, Journ. Royal Micr. Soc., 1883, p. 161, pl. 3, figs. 1, 2.

COLLOTHECA LIBERA (Zacharias).

Floscularia libera ZACHARIAS, Forschungsber. Biol. Stat. Plön, vol. 2, p. 83, pl. 2, fig. 5.

COLLOTHECA LONGICAUDATA (Hudson).

Floscularia longicaudata HUDSON, Journ. Royal Micr. Soc., 1883, p. 165, pl. 4, fig. 2.

COLLOTHECA MINUTA (Milne).

Floscularia minuta MILNE, Proc. Royal Philos. Soc., Glasgow, vol. 36, 1905, p. 125, pl. 2, fig. 5.

COLLOTHECA MIRA (Hudson).

Floscularia mira HUDSON, Journ. Royal Micr. Soc., 1885, p. 609.

COLLOTHECA MONOCEROS (Zacharias).

Floscularia monoceros ZACHARIAS, Zool. Anz., vol. 41, 1912, p. 142.

COLLOTHECA MOSELII (Milne).

Floscularia moselii MILNE, Proc. Royal Philos. Soc., Glasgow, vol. 36, 1905, p. 120, pl. 1, figs. 1–6.

COLLOTHECA MUTABILIS (Hudson).

Floscularia mutabilis HUDSON, Journ. Royal Micr. Soc., 1885, p. 609, pl. 12, figs. 1–3.

This species has been credited to Hudson, as it is very doubtful whether the description in "Bolton's flyleaves" can be accepted as publication in the sense of the International Code.

COLLOTHECA ORNATA (Ehrenberg).

? *Brachionus hyacinthinus* PALLAS, Elench. Zooph., 1766, p. 93.
? *Vorticella hyacinthina* GMELIN, Syst. Nat., ed. 13, vol. 1, pt. 6, 1790, p. 3880.
Floscularia ornata EHRENBERG, Abh. Akad. Wiss., Berlin (for 1831), 1832, p. 146.
Floscularia pentacornis COSTA, Fauna Regno Napoli, Infusori, 1838, p. 22, pl. 2, fig. 12.

COLLOTHECA PELAGICA (Rousselet).

Floscularia pelagica ROUSSELET, Journ. Royal Micr. Soc., 1893, p. 444, pl. 7, fig. 1.

COLLOTHECA QUADRILOBATA (Hood).

Floscularia quadrilobata HOOD, Int. Journ. Micr. Nat. Sci., vol. 11, 1892, p. 26, pls. 3, 4.

COLLOTHECA SESSILIS (Milne).

Floscularia sessilis MILNE, Proc. Royal Philos. Soc., Glasgow, vol. 36, 1905, p. 124, pl. 2, fig. 6.

COLLOTHECA SPINATA (Hood).

Floscularia spinata HOOD, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 281, pl. 12, fig. 1.

COLLOTHECA TENUILOBATA (Anderson).

Floscularia tenuilobata ANDERSON, Journ. Asiatic Soc., Bengal, vol. 58, pt. 2, p. 346, pl. 19.

COLLOTHECA TORQUILOBATA (Thorpe).

Floscularia torquilobata THORPE, Journ. Royal Micr. Soc., 1891, p. 302, pl. 6, fig. 2.

COLLOTHECA TRIFIDLOBATA (Pittock).

Floscularia trifidlobata PITTOCK, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1895, p. 77, pl. 1.

COLLOTHECA TRILOBATA (Collins).

Floscularia trilobata Collins, Sci. Goss., 1872, p. 10, fig.
Floscularia trifolium Hudson, Journ. Royal Micr. Soc., 1881, p. 4, pl. 2.

Genus COLURELLA Bory de St. Vincent.

Colurella Bory de St. Vincent, Enc. Méth., Zooph. (pt. 1), 1824, p. 203=*Colurus* Ehrenberg, Abh. Akad. Wiss., Berlin, 1830, p. 44.
Type (monotype).—*Colurella uncinata* (Müller)=*Brachionus uncinatus* Müller.

The revision of this genus by v. Hofsten in Ark. Zool., Stockholm, vol. 6, No. 1, 1909, pp. 73 ff., has been accepted in its entirety, with the emendations necessitated by the corrected chronology of Ehrenberg's publications.

COLURELLA ADRIATICA Ehrenberg.

Colurella adriatica Ehrenberg, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, pl. 3, Alexandrina, V, fig. 3.
Colurus caudatus Ehrenberg, Abh. Akad. Wiss., Berlin (for 1833), 1834, p. 202.
Monura dulcis Ehrenberg, Infusionsth., 1838, p. 474, pl. 59, fig. 5.
Colurus navalis Lord, Micr. News, vol. 4, 1884, p. 74, text fig.
Colurus leptus Gosse, Journ. Royal Micr. Soc., 1887, p. 364, pl. 8, fig. 7.
Monura bartonia Gosse, Journ. Royal Micr. Soc., 1887, p. 869, pl. 15, fig. 19.
Colurella caudata Dieffenbach, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 183, text fig.
Colurella dulcis Dieffenbach, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 183, text fig.
Colurella lepta Dieffenbach, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 184, text fig.

COLURELLA BICUSPIDATA (Ehrenberg).

Colurus bicuspidatus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 129.
Colurella bicuspidata v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 81, text fig.

COLURELLA COLURUS (Ehrenberg).

Monura colurus Ehrenberg, Abh. Akad. Wiss., Berlin, 1830, p. 44. Type (monotype) of genus *Monura* Ehrenberg, 1830.

The names *Monura adriatica*, p. 8, *Monura colurus* and *Colurella adriatica*, p. 17, Abh. Akad. Wiss., Berlin (for 1829), 1830, are *nomina nuda*, without any indication whatever. Consequently, regardless of subsequent explanations, they must be disregarded in the nomenclature of the species in question.

Colurus amblytelus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 104, pl. 26, fig. 5.
Colurus grallator Gosse, Journ. Royal Micr. Soc., 1887, p. 6, pl. 2, fig. 23.
Monura lonchores Gosse, Journ. Royal Micr. Soc., 1887, p. 869, pl. 15, fig. 20.
Colurus rotundatus Daday, Ért. Term. Kör., vol. 19, pt. 17, 1890, p. 24, pl. 2, fig. 18.
Monura amblytelus Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 120, pl. 6, fig. 35.
Colurella amblytelus v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 74, text fig.
Colurella colura Dieffenbach, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 182, text fig.

Colurella compressa Lucks, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 183, text fig.
Colurus compressus Lucks, Rotatorienfauna Westpreussens, 1912, p. 116, text fig.

COLURELLA DEFLEXA (Ehrenberg).

Colurus deflexus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 203.
? *Colurus dumnonius* Gosse, Journ. Royal Micr. Soc., 1887, p. 6, pl. 2, fig. 21.
Colurella deflexa Dieffenbach, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 185, text fig.

COLURELLA OBTUSA (Gosse).

Colurus obtusus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 103, pl. 26, fig. 3.
Colurella obtusa v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 84.

COLURELLA SULCATA (Stenroos).

Metopidia sulcata Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 166, pl. 2, figs. 27–29.

COLURELLA TESSELATA (Glasscott).

Colurus tesselatus Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 74, pl. 6, fig. 3.
Colurella tesselata v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 84.

COLURELLA UNCINATA (Müller).

Brachionus uncinatus Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 134.
Colurella uncinata Bory de St. Vincent, Enc. Méth., Zooph. (pt. 1), 1824, p. 203.
Colurus uncinatus Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 44. Monotype of genus *Colurus* Ehrenberg, 1830.
Monura micromela Gosse, Journ. Royal Micr. Soc., 1887, p. 7, pl. 2, fig. 24.
Colurus micromela Gosse, Journ. Royal Micr. Soc., 1887, p. 367.

Doubtful or insufficiently described species:

Colurus agilis Stokes, Journ. Royal Micr. Soc., 1896, p. 275, pl. 6, figs. 7–9.
Colurus cœlopinus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 105, pl. 26, fig. 4.
Colurus dactylotus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 105, pl. 25, fig. 12.
Colurus dicentrus Gosse, Journ. Royal Micr. Soc., 1887, p. 6, pl. 2, fig. 22.
Colurus gracilis Hilgendorf, Trans. New Zealand Inst., vol. 31 (for 1898), 1899, p. 128, pl. 11, fig. 13.
Colurus incrassatus Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 20, pt. 2, 1847, p. 354, pl. 9, fig. 12.
Colurus margói Kertész, Budapest Rotat. Faun., 1894, pp. 38, 52, pl. 1, fig. 7.
Colurus pachypodus Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 74, pl. 6, fig. 2.
Colurus pedatus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 105, pl. 25, fig. 13.
Colurus truncatus Daday, Ért. Term. Kör., vol. 19, pt. 17, 1890, p. 25, pl. 2, fig. 19.

Genus CONOCHILOIDES Hlava.

Conochiloides Hlava, Zool. Anz., vol. 27, 1904, p. 253.
Type (by present designation).—*Conochiloides natans* (Seligo)=*Tubicolaria natans* Seligo.

CONOCHILOIDES DOSSUARIUS (Hudson).

Conochilus dossuarius Hudson, Journ. Royal Micr. Soc., 1885, p. 611, pl. 12, fig. 4.
Cephalosiphon dossuarius Hudson, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 91, (Misprint for *Conochilus*.)
Conochiloides dossuarius Hlava, Zool. Anz., vol. 27, 1904, p. 253.

CONOCHILOIDES NATANS (Seligo).

Tubicolaria natans SELIGO, Unters. Stuhmer Seen, 1900, p. 60, pl. 9, fig. 7.
Conochilus natans VOIGT, Zool. Anz., vol. 25, 1902, p. 680.
Conochiloides natans HLAVA, Zool. Anz., vol. 27, 1904, p. 253.

Genus CONOCHILUS Ehrenberg.

Conochilus EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 224.
Type (monotype).—*Conochilus hippocrepis* (Schrank) as *volvox* Ehrenberg=*Linza hippocrepis* Schrank.

CONOCHILUS HIPPOCREPIS (Schrank).

Linza hippocrepis SCHRANK, Fauna Boica, vol. 3, pt. 2, 1830, p. 314.
Conochilus volvox EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 224.
Ptygura volvox DUJARDIN, Hist. Nat. Zooph., 1841, p. 617.
Megalotrocha volvox GOSSE, Pop. Sci. Rev., vol. 1, 1862, p. 491, pl. 26, figs. *e*, *f*.
Lacinularia volvox SCHOCH, Mikr. Thiere Süssw.-Aquar., 1868, pt. 2, p. 19, pl. 4, fig. 1.

Schrank's description, part of which is given below, refers unmistakably to the animal called *Conochilus volvox* by Ehrenberg.

. . . der Rand ist etwas aufstehend, nicht flach verbreitet, nierenförmig, wirbelnd; in der Mitte ein Höcker mit Spizen. Die Mündung zieht das Thier oft vielgestaltig zusammen, dass sie bald erweitert trichterförmig, bald vierlappig, u. s. w. erscheint. Verlässt das Thier die Gesellschaft, so heftet es sich bald wieder mit dem Schwanze irgendwo an, und wirft sich dann wie eine Schleuder um diesen Mittelpunkt herum.

Die vorige Art hat einen flach verbreiteten Rand, weniger keulenförmigen, dafür mehr posaunenförmigen, Körper, auf den die Mündung schief steht. Uebrigens steckt es ebenfalls, wie das gegenwärtige, in einer mit Punkten besäeten Gallerte. (Fauna Boica, vol. 3, pt. 2, p. 315.)

"Die vorige Art" is *Linza flosculosa* (=*Lacinularia flosculosa*).

CONOCHILUS UNICORNIS Rousselet.

Conochilus unicornis ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1892, p. 367, pl. 24, fig. 11.
Conochilus leptopus FORBES, Bull. U. S. Fish. Comm., vol. 11 (for 1891), 1893, p. 256.
Conochilus limneticus STENROOS, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 109, pl. 1, figs. 18, 19.

Genus CORDYLOSOMA Voigt.

Cordylosoma VOIGT, Forschungsber. Biol. Stat. Plön, vol. 11, 1904, p. 12; not *Cordylosoma* Roth, 1909, Protozoa.
Type (monotype).—*Cordylosoma perlucidum* (Voigt)=*Rhopalosoma perlucidum* Voigt.

CORDYLOSOMA PERLUCIDUM (Voigt).

Rhopalosoma perlucidum VOIGT, Zool. Anz., vol. 25, 1902, p. 678.
Cordylosoma perlucidum VOIGT, Forschungsber. Biol. Stat. Plön, vol. 11, 1904, p. 12, pl. 1, figs. 2, 3.

CORONELLA Goldfuss.

Coronella GOLDFUSS, Handb. Zool., 1820, p. 77; not *Coronella* Laurens, 1768, Reptilia.

Genus CUPELOPAGIS Forbes.

Cupelopagis FORBES, Amer. Monthly Micr. Journ., vol. 3, 1882, p. 102.
Type (monotype).—*Cupelopagis vorax* (Leidy) as *bucinedax* Forbes.

CUPELOPAGIS VORAX (Leidy).

Dictyophora vorax LEIDY, Proc. Acad. Nat. Sci. Philadelphia, vol. 9, 1857, p. 205.
Apsilus lentiformis METCHNIKOV, Zeitschr. Wiss. Zool., vol. 16, 1866, p. 346, pl. 19.
Cupelopagis bucinedax FORBES, Amer. Monthly Micr. Journ., vol. 3, 1882, p. 102, text fig.
Apsilus vorax FOULKE, Proc. Acad. Nat. Sci. Philadelphia, 1884, p. 40, pl. 1, fig. 1.
Apsilus bucinedax FOULKE, Proc. Acad. Nat. Sci. Philadelphia, 1884, p. 40, pl. 1, fig. 3.
Apsilus bipera FOULKE, Proc. Acad. Nat. Sci. Philadelphia, 1884, p. 40, pl. 1, figs. 4, 7.
Cupelopagis vorax DE BEAUCHAMP, Bull. Soc. Zool. France, vol. 37, 1912, p. 247.
Cupelopagis bucinedax DE BEAUCHAMP, Bull. Soc. Zool. France, vol. 37, 1912, p. 248.
Cupelopagis bipera DE BEAUCHAMP, Bull. Soc. Zool. France, vol. 37, 1912, p. 248

CYCLOGLENA Ehrenberg

Cycloglena EHRENBERG, Abh. Akad. Wiss. Berlin (for 1829), 1830, p. 15.
Type (monotype).—*Cyclogena furca* (Ehrenberg); unrecognizable.

Cycloglena furca (EHRENBERG)
Typhlina furca EHRENBERG, part, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, Phytozoa, pl. 1, fig. 17*b*, 1.
Cycloglena elegans EHRENBERG, Abh. Akad. Wiss. Berlin (for 1829), 1830, p. 15.

CYPHONAUTES Ehrenberg.

Cyphonautes EHRENBERG, only species *Cyphonautes compressus* Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 204; larval form of *Membranipora pilosa* (Linnæus); to Bryozoa.

Genus CYPRIDICOLA Daday.

Cypridicola DADAY, Term. Füz., vol. 16, 1893, pp. 1, 54.
Type (monotype).—*Cypridicola parasitica* Daday.

CYPRIDICOLA PARASITICA Daday.

Cypridicola parasitica DADAY, Term. Füz., vol. 16, 1893, pp. 1, 54, pl. 1, figs. 1–10.

Genus CYRTONIA Rousselet.

Cyrtonia ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 433.
Type (monotype).—*Cyrtonia tuba* (Ehrenberg)=*Notommata tuba* Ehrenberg.

CYRTONIA TUBA (Ehrenberg).

Notommata tuba EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 216.
Cyrtonia tuba ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 433, pl. 20, figs. 1–4.
Proales hyalina STOKES, Ann. Mag. Nat. Hist., ser. 6, vol. 19, 1897, p. 629, pl. 14, fig. 4.

CYSTOPHTHALMUS Corda.

Cystophthalmus CORDA, only species *Cystophthalmus ehrenbergii* CORDA, Beitr. Nat. Heilwiss., vol. 1, 1836, p. 178, figs.; unrecognizable.

Genus DAPIDIA Gosse.

Dapidia GOSSE, Journ. Royal Micr. Soc., 1887, p. 364.
Type (monotype).—*Dapidia stroma* Gosse.

DAPIDIA STROMA Gosse.

Dapidia stroma GOSSE, Journ. Royal Micr. Soc., 1887, p. 364, pl. 8, fig. 6.

As far as published records go, this species has not been refound; the characteristics given in the original description do not appear to be of generic value.

Genus DIARTHRA Daday.

Diarthra Daday, Math. Term. Ért., vol. 15, 1897, p. 143.
Type (monotype).—*Diarthra monostyla* Daday.

DIARTHRA MONOSTYLA Daday.

Diarthra monostyla Daday, Math. Term. Ért., vol. 15, 1897, p. 143, fig. 10.

Genus DIASCHIZA Gosse.

Diaschiza Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 77.
Type (by designation of Dixon-Nuttall and Freeman, Journ. Royal Micr. Soc., 1903, p. 2).—*Diaschiza gibba* (Ehrenberg)=*Furcularia gibba* Ehrenberg.

DIASCHIZA AURICULATA (Müller).

Vorticella auriculata Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 111.
Vorticella lacinulata Müller, Anim. Infus., 1786, p. 292, pl. 42, figs. 1–5=*Vorticella auriculata* renamed.
Ecclissa lacinulata Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 107.
Ecclissa hermanni Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 109.
Furcularia lacinulata Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 38.
Furcularia lobata Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 425=*Vorticella lacinulata* renamed.
Notommata lacinulata Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46.
? *Dekinia calopodaria* Morren, Ann. Sci. Nat., vol. 21, 1830, p. 139, pl. 3, fig. 4.
? *Dekinia minutula* Morren, Ann. Sci. Nat., vol. 21, 1830, p. 144, pl. 3, fig. 5.
? *Dekinia compta* Morren, Ann. Sci. Nat., vol. 21, 1830, p. 146, pl. 3, fig. 7.
Plagiognatha lacinulata Dujardin, Hist. Nat. Zooph., 1841, p. 652, pl. 18, fig. 6.
Proales gibba Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 37, pl. 18, fig. 8.
Notommata ovulum Gosse, Journ. Royal Micr. Soc., 1887, p. 2, pl. 1, fig. 3.
Notommata cuneata Thorpe, Journ. Royal Micr. Soc., 1891, p. 305, pl. 7, fig. 5.
? *Notostemma makrocephala* Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sec. 2, No. 4, p. 69, pls. 2, 3, fig. 19.
? *Notostemma bicarinata* Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sec. 2, No. 4, p. 70, pl. 2, fig. 18. Type (by present designation) of genus *Notostemma* Bergendal, 1892.
Diaschiza lacinulata Levander, Acta Soc. Fauna Flora Fenn., vol. 12, No. 3, 1894, p. 43.
? *Diaschiza taurocephalus* Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 123, pl. 10, fig. 9.

DIASCHIZA CRASSIPES Lord.

Diaschiza crassipes Lord, Trans. Manchester Micr. Soc., 1903, p. 78, pl. 3, fig. 3.

DIASCHIZA DERBYI Dixon-Nuttall and Freeman.

Diaschiza derbyi Dixon-Nuttall and Freeman, Journ. Royal Micr. Soc., 1903, p. 131, pl. 4, fig. 13.

DIASCHIZA EVA (Gosse).

Furcularia eva Gosse, Journ. Royal Micr. Soc., 1887, p. 864, pl. 14, fig. 9.
Furcularia semisetifera Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 55, pl. 4, fig. 2.
Diaschiza eva Dixon-Nuttall and Freeman, Journ. Royal Micr. Soc., 1903, p. 137, pl. 3, fig. 8.

DIASCHIZA EXIGUA Gosse.

Diaschiza exigua Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 78, pl. 22, fig. 13.

DIASCHIZA FORFICATA (Ehrenberg).

Notommata forficata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 134.
Notommata forcipata Ehrenberg, Infusionsth., 1838, p. 428, pl. 51, fig. 5.
Furcularia cæca Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 199.
Furcularia ensifera Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 43, pl. 20, fig. 3.
Diaschiza pæta Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 79, pl. 22, fig. 11.
Diaschiza acronota Gosse, Journ. Royal Micr. Soc., 1887, p. 867, pl. 15, fig. 15.
Diaschiza cæca Dixon-Nuttall and Freeman, Journ. Royal Micr. Soc., 1903, p. 134, pl. 4, fig. 11.

That Ehrenberg's *Notommata forficata* (*forcipata* in his "Infusionsthierchen" is an inadmissible correction) is the same as Gosse's *Diaschiza pæta* seems beyond question; the long, slender toes, wide apart at the base, often crossed, size 0.15 mm., and the very large "eye," that is, gastric glands, all agree very closely with Gosse's description.

DIASCHIZA GIBBA (Ehrenberg).

Furcularia gibba Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 130, pl. 4, fig. 16.
Diaschiza semiaperta Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 80, pl. 22, fig. 10.
Furcularia macrodactyla Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 134, pl. 2, fig. 15.
Diaschiza gibba Dixon-Nuttall and Freeman, Journ. Royal Micr. Soc., 1903, p. 6, pl. 1, fig. 1.

DIASCHIZA GLOBATA Gosse.

Diaschiza globata Gosse, Journ. Royal Micr. Soc., 1887, p. 362, pl. 8, fig. 4.
Furcularia sphærica Gosse, Journ. Royal Micr. Soc., 1887, p. 864, pl. 14, fig. 7.

DIASCHIZA GRACILIS (Ehrenberg).

Furcularia gracilis Ehrenberg, Abh. Akad. Wiss., Berlin (for 1831), 1832, p. 130.
? *Diaschiza taurocephalus tenua* Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 124, pl. 10, fig. 9*c–d*.
Diaschiza gracilis Dixon-Nuttall and Freeman, Journ. Royal Micr. Soc., 1903, p. 10, pl. 1, fig. 4.

DIASCHIZA HOODII Gosse.

Diaschiza hoodii Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 79, pl. 22, fig. 15.
Diaschiza rhamphigera Gosse, Journ. Royal Micr. Soc., 1887, p. 6, pl. 2, fig. 20.
Plagiognatha gracilis Tessin, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 150, pl. 1, fig. 10.

DIASCHIZA MEGALOCEPHALA (Glasscott).

? *Furcularia lactistes* Gosse, Journ. Royal Micr. Soc., 1887, p. 863, pl. 14, fig. 5.
Furcularia megalocephala Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 56, pl. 4, fig. 3.
? *Diglena inflata* Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 60, pl. 4, fig. 6.
Diaschiza megalocephala Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1895, p. 123, pl. 7, fig. 5.

DIASCHIZA PARASITICA (Jennings).

Pleurotrocha parasitica Jennings, Bull. U. S. Fish Comm., vol. 19 (for 1899), 1900, p. 84, pl. 16, figs. 13, 14.

DIASCHIZA STEREA (Gosse).

Furcularia sterea Gosse, Journ. Royal Micr. Soc., 1887, p. 864, pl. 14, fig. 8.
Diaschiza sterea Dixon-Nuttall and Freeman, Journ. Royal Micr. Soc., 1903, p. 8, pl. 1, fig. 3.

DIASCHIZA TENUIOR Gosse.

Diaschiza tenuior Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 81, pl. 22, fig. 14.

DIASCHIZA TENUISETA (Burn).

Furcularia tenuiseta Burn, Sci. Goss., vol. 26, 1890, p. 34, fig.
Diaschiza tenuiseta Dixon-Nuttall and Freeman, Journ. Royal Micr. Soc., 1903, p. 138, pl. 1, fig. 2.

DIASCHIZA TIGRIDIA (Gosse).

Proales tigridia Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 38, pl. 18, fig. 10.
Proales tigridia Weber, Rev. Suisse Zool., vol. 5, 1898, p. 368, pl. 18, figs. 18–20.

The animal described under this name by Weber is evidently a *Diaschiza*, and appears to be the same species described by Gosse.

DIASCHIZA VALGA Gosse.

Diaschiza valga Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 77, pl. 22, fig. 12.

DIASCHIZA VENTRIPES Dixon-Nuttall.

Diaschiza ventripes Dixon-Nuttall, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1901, p. 25, pl. 2, figs. 1–3.

Doubtful or insufficiently described species:

Diaschiza cupha Gosse, Journ. Royal Micr. Soc., 1887, p. 3, pl. 1, fig. 6.
Diaschiza fretalis Gosse, Journ. Royal Micr. Soc., 1887, p. 866, pl. 15, fig. 14.
Notostemma affinis Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 70, pl. 2, fig. 17.

Genus DICRANOPHORUS Nitzsch.

Dicranophorus Nitzsch, Enc. Wiss. u. Künste, sect. 1, vol. 16, 1827, p. 68=*Distemma* Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 47=*Dekinia* Morren, Ann. Sci. Nat., vol. 21, 1830, p. 113.

Type (by present designation).—*Dicranophorus forcipatus* (Müller)=*Cercaria forcipata* Müller.

DICRANOPHORUS AURITUS (Ehrenberg).

Diglena aurita Ehrenberg, Abh. Akad. Wiss. Berlin (for 1829), 1830, p. 16.
Typhlina canicula Ehrenberg, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, pl. 1, fig. 16.
Eosphora aurita Werneck, Mitth. Ges. Naturf. Freunde, Berlin, vol. 1, 1836, p. 16. (Reference from Ehrenberg.)
Eosphora viridis Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 136, pl. 1, figs. 30–32.

DICRANOPHORUS FORCIPATUS (Müller).

? *Vorticella vermicularis* Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 107.
? *Cercaria lupus* Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 67.
? *Cercaria vermicularis* Müller, Anim. Infus., 1786, p. 133, pl. 20, figs. 18–20.
Cercaria forcipata Müller, Anim. Infus., 1786, p. 134, pl. 20, figs. 21–23.

? *Furcocerca lupus* LAMARCK, Hist. Nat. Anim. sans Vert., vol. 1, 1815, p. 448.
? *Trichocerca vermicularis* LAMARCK, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 25.
Trichocerca forcipata LAMARCK, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 25.
? *Leiodina vermicularis* BORY DE ST. VINCENT, Dict. Class. Hist. Nat., vol. 9, 1826, p. 272.
Leiodina forcipata BORY DE ST. VINCENT, Dict. Class. Hist. Nat., vol. 9, 1826, p. 272.
? *Cephalodella lupus* BORY DE ST. VINCENT, Dict. Class. Hist. Nat., vol. 10, 1826, p. 544.
? *Dicranophorus vermicularis* NITZSCH, Enc. Wiss. u. Künste, sect. 1., vol. 16, 1827, p. 68.
Dicranophorus forcipatus NITZSCH, Enc. Wiss. u. Künste, sect. 1., vol. 16, 1827, p. 68.
? *Dicranophorus lupus* NITZSCH, Enc. Wiss. u. Künste, sect. 1., vol. 16, 1827, p. 68.
? *Dekinia vermicularis* MORREN, Ann. Sci. Nat., vol. 21, 1830, p. 141, pl. 3, fig. 6.
Dekinia forcipata MORREN, Ann. Sci. Nat., vol. 21, 1830, p. 136, pl. 3, fig. 3. Type (by present designation) of genus *Dekinia* Morren, 1830.
Distemma forcipatum EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 47. Monotype of genus *Distemma* Ehrenberg, 1830. (*Cercaria forcipata* Müller is given as synonym; the species which he lists in Infusionsth., 1838, p. 450, is said to be another form.)
? *Furcularia vermicularis* BLAINVILLE, Dict. Sci. Nat., vol. 60, 1830, p. 151.
Furcularia forcipata BLAINVILLE, Dict. Sci. Nat., vol. 60, 1830, p. 151.
? *Furcularia lupus* BLAINVILLE, Dict. Sci. Nat., vol. 60, 1830, p. 151.
Diglena forcipata EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, pp. 137, 154, pl. 4, fig. 10.
? *Diglena fortificata* TESSIN, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 148. (?Misprint for *Diglena forcipata*.)

DICRANOPHORUS GIRAFFA (Gosse).

Diglena giraffa GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 51, pl. 19, fig. 9.

DICRANOPHORUS GRANDIS (Ehrenberg).

Diglena grandis EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 137.
Furcularia grandis DUJARDIN, Hist. Nat. Zooph., 1841, p. 649.

DICRANOPHORUS ROSTRATUS (Dixon-Nuttall and Freeman).

Diglena rostrata DIXON-NUTTALL and FREEMAN, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1902, p. 215, pl. 9, figs. 1–3.

DICRANOPHORUS UNCINATUS (Milne).

Diglena uncinata MILNE, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 141, pl. 2, figs. 1, 2, 8.
? *Diglena dromius* GLASSCOTT, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 84, pl. 7, fig. 4.
Furcularia uncinata HOOD, Proc. Royal Irish Acad., ser. 3, vol. 3, 1895, p. 665.
Arthroglena uncinata v. HOFSTEN, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 26.

Doubtful or insufficiently described species:

Distemma collinsii GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 55, pl. 18, fig. 13.
Distemma dubia BERGENDAL, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 100, pl. 6, fig. 31.
Distemma labiatum GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 56, pl. 18, fig. 13.
Distemma larva EICHWALD, Bull. Soc. Imp. Nat. Moscou, vol. 20, 1847, pt. 2, p. 344, pl. 9, fig. 5.

DICTYOPHORA Leidy.

Dictyophora Leidy, Proc. Acad. Nat. Sci. Philadelphia, vol. 9, 1857, p. 205; not *Dictyophora* Germar, 1833, Hemiptera.

DINOPS Rousselet.

Dinops Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1891, p. 263; not *Dinops* Savi, 1825, Mammalia (Savi, not Savi*gny*).

DIOPS Bergendal.

Diops Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 83; not *Diops* Taczonovski, 1873, Arachnida; not *Diops* Paulsen, 1875, Crustacea.

DIPLAX Gosse.

Diplax Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 201; not *Diplax* Charpentier, 1840, Neuroptera.

Genus DIPLEUCHLANIS de Beauchamp.

Dipleuchlanis de Beauchamp, Bull. Soc. Zool. France, vol. 35, 1910, p. 122.
Type (monotype).—*Dipleuchlanis propatula* (Gosse)=*Diplois propatula* Gosse.

DIPLEUCHLANIS PROPATULA (Gosse).

? *Euchlanis weissei* Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 20, 1847, pt. 2, p. 348, pl. 9, fig. 8.
? *Euchlanis ampuliformis* Herrick, Bull. Denison Univ., vol. 1, 1885, p. 48, pl. 2, fig. 3.
Diplois propatula Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 87, pl. 24, fig. 2,
Euchlanis subversa Bryce, Sci. Goss., vol. 26, 1890, p. 77, text figs.
Euchlanis elegans Wierzejski, Bull. Acad. Sci. Cracovie (for 1892), 1893, p. 406.
? *Euchlanis plicata* Levander, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 48, pl. 2, figs. 26–28.
Euchlanis propatula Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1896, p. 265.
Euchlanis longicaudata Collin, Deutsch-Ost-Afrika, vol. 4, No. 15, 1897, p. 6, fig. 4.
Dipleuchlanis propatula de Beauchamp, Bull. Soc. Zool. France, vol. 35, 1910, p. 122.
Dipleuchlanis elegans Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 164, text fig.

Genus DIPLOIS Gosse.

Diplois Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 86.
Type (by present designation).—*Diplois daviesiæ* Gosse.

DIPLOIS DAVIESIÆ Gosse.

Diplois daviesiæ Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 87, pl. 24, fig. 3.
? *Diplois phlegræa* Iroso, Mon. Zool. Italiano, vol. 21, 1910, p. 301.

DIPLOIS SCULPTURATA Daday.

Diplois sculpturata Daday, Math. Term. Ért., vol. 15, 1897, p. 135, fig. 3.

DIPLOIS TRIGONA Rousselet.

Diplois trigona Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1895, p. 119, pl. 6, fig. 2.

DIPLOTROCHA Schmarda.

Diplotrocha Schmarda, only species *Diplotrocha ptygura*, Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, 1854, pt. 2, p. 22, pl. 6, fig. 7; unrecognizable; according to Hudson, this animal was probably a young Rhizotan.

DIPODINA Ehrenberg.

Dipodina Ehrenberg, Froriep's Neue Notizen Nat. u. Heilk., ser. 2, vol. 24, 1842, p. 184.

Type (monotype).—*Dipodina arctiscon* Ehrenberg, insufficiently described.

Dipodina arctiscon Ehrenberg, Froriep's Neue Notizen Nat. u. Heilk., ser. 2, vol. 24, 1842, p. 184.

DISCOPUS Zelinka.

Discopus Zelinka, Zeitschr. Wiss. Zool., vol. 47, 1888, p. 353; not *Discopus* Thomson, 1864, Coleoptera.

Genus DISPINTHERA Gosse.

Dispinthera Gosse, Journ. Royal Micr. Soc., 1887, p. 868.

Type (monotype).—*Dispinthera capsa* Gosse.

DISPINTHERA CAPSA Gosse.

Dispinthera capsa Gosse, Journ. Royal Micr. Soc., 1887, p. 868, pl. 15, fig. 18.

Genus DISSOTROCHA Bryce.

Dissotrocha Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

Type (by designation of Woodcock, Int. Cat. Sci. Lit., vol. 10, 1911, Zoology, VI, p. 45).—*Dissotrocha spinosa* (Bryce)=*Callidina spinosa* Bryce.

DISSOTROCHA ACULEATA (Ehrenberg).

Philodina aculeata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 148.

Philodina aculeata medio-aculeata Janson, Uebers. Rot.-Fam. Philodinäen, 1893, p. 51, pl. 2, fig. 22.

Philodina aculeata crystallina Murray, Journ. Quekett Micr. Club, ser. 2, vol. 10, 1908, p. 220, pl. 16, fig. 8.

Dissotrocha aculeata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

DISSOTROCHA MACROSTYLA (Ehrenberg).

Philodina macrostyla Ehrenberg, Infusionsth., 1838, p. 500, pl. 61, fig. 7.

Dissotrocha macrostyla Bryce, Journ. Quekett Micr. Soc., ser. 2, vol. 11, 1910, p. 76.

DISSOTROCHA PECTINATA Murray.

Dissotrocha pectinata Murray, Journ. Royal Micr. Soc., 1911, p. 586, pl. 16, fig. 3.

DISSOTROCHA SPINOSA (Bryce).

Callidina spinosa Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1892, p. 22, pl. 2, fig. 3.

Philodina spinosa Murray, Journ. Quekett Micr. Club, ser. 2, vol. 10, 1908, p. 223, pl. 15, figs. 5, 6.

Dissotrocha spinosa Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

DISTYLA Eichwald.

Distyla Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 20, 1847, pt. 2, p. 345.
Type (monotype).—*Distyla weissei* Eichwald.

As the type of Eichwald's genus *Distyla* is unrecognizable, and certainly not congeneric with the species of Eckstein's "genus" of 1883, these have been transferred to the genus *Lecane* Nitzsch. It does not appear, that there are sufficient differences to separate the two groups generically.

Eichwald's type bears some resemblance to a *Monostyla*, but has two small toes; v. Hofsten, Zool. Bidr. Uppsala, vol. 1, 1912, p. 189, refers it to *Pleurotrocha reinhardti*.

Distyla weissei Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 20, 1847, pt. 2, p. 345, pl. 9, fig. 6.

Genus DIURELLA Bory de St. Vincent.

Diurella Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 5, 1824, p. 568.
Type (by present designation).—*Diurella tigris* (Müller)=*Trichoda tigris* Müller.

DIURELLA BRACHYURA (Gosse).

Monocerca brachyura Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 199.
Diurella rattulus Eyferth, Einf. Lebensf., 1878, p. 85.
Cœlopus brachyurus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 69, pl. 20, fig. 21.
Acanthodactylus rattulus Tessin, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 155.
Rattulus palpitatus Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 25, pl. 8, fig. 19.
Diurella brachyura Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 317, pl. 3, figs. 32–34.

DIURELLA BREVIDACTYLA Daday.

Diurella brevidactyla Daday, Ért. Term. Kör., vol. 19, No. 17, 1890, p. 19, pl. 2, fig. 13.

DIURELLA CAVIA (Gosse).

Cœlopus cavia Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 69, pl. 20, fig. 22.
Diurella cavia Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 317, pl. 3, figs. 35, 36.
Diurella bidens Lucks, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 130, text fig.

DIURELLA COLLARIS (Rousselet).

Rattulus collaris Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1896, p. 266, pl. 11, fig. 1.
Diurella collaris Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 319, pl. 14, fig. 127.

DIURELLA DIXON-NUTTALLI Jennings.

Diurella dixon-nuttalli Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 318, pl. 4, figs. 40–44.
Cœlopus inermis Linder, Rev. Suisse Zool., vol. 12, 1904, p. 240, pl. 4, fig. 9.
Diurella inermis Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 130, text fig.

DIURELLA HELMINTHODES (Gosse).

Rattulus helminthodes Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 65, pl. 20, fig. 17.

Diurella helminthodes Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 320, pl. 14, fig. 122.

DIURELLA INSIGNIS Herrick.

Diurella insignis Herrick, Bull. Denison Univ., vol. 1, 1885, p. 50, pl. 4, fig. 6.

DIURELLA INTERMEDIA (Stenroos).

Cœlopus intermedius Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 150, pl. 2, fig. 10.

Diurella intermedia Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 310, pl. 13, figs. 108–110.

DIURELLA PORCELLUS (Gosse).

Monocerca porcellus Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 199.

Cœlopus porcellus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 67, pl. 20, fig. 18. *Type* (by present designation) of genus *Cœlopus* Gosse, 1886; not *Cœlopus* Becker, 1907, Insecta.

Acanthodactylus tigris Tessin, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 153, pl. 1, fig. 13.

Diurella porcellus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 312, pl. 2, figs. 19–23.

DIURELLA ROUSSELETI (Voigt).

Cœlopus rousseleti Voigt, Zool. Anz., vol. 25, 1902, p. 38.

Diurella rousseleti Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 315, pl. 4, figs. 37–39.

Mastigocerca minima Skorikov, Ann. Mus. Zool. St. Petersburg, vol. 8, 1903, p. XXI.

DIURELLA SEJUNCTIPES (Gosse).

Rattulus sejunctipes Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 66, pl. 20, fig. 15.

Diurella sejunctipes Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 319, pl. 14, figs. 120, 121.

This species should probably be dropped; Gosse's description and figure are insufficient for determination, and the animal described and figured by Stenroos (see Jennings) was apparently *Diurella brachyura* (Gosse), or rather, no details are given that would enable others to differentiate the two.

DIURELLA STYLATA Eyferth.

Diurella stylata Eyferth, Einf. Lebensf., 1878, p. 85, pl. 5, fig. 23.

Cœlopus similis Wierzejski, Bull. Acad. Sci. Cracovie (for 1892), 1893, p. 406.

Rattulus bicornis Western, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 159, pl. 9, fig. 4.

Mastigocerca birostris Minkiewicz, Zool. Anz., vol. 23, 1900, p. 623, fig. III*b*.

Mastigocerca wolgensis Meissner, Compt. Rend. Stat. Biol. du Volga (for 1901), 1902, p. 26, pl. 10, figs. 6–8.

Mastigocerca heterostyla Daday, Sitzungsber. Akad. Wiss. Wien, vol. 112, 1903, Abt. 1, p. 144, pl. 1, fig. 4.

Mastigocerca blanci Linder, Rev. Suisse Zool., vol. 12, 1904, p. 238, pl. 4, fig. 7.

DIURELLA SULCATA (Jennings).

Rattulus sulcatus Jennings, Bull. Michigan Fish Comm., No. 3, 1894, p. 20, fig. 8.
Rattulus cryptopus Bilfinger, Jahresh. Naturk. Württemberg, vol. 50, 1894, p. 51.
Diurella sulcata Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 316, pl. 2, figs. 24–26; pl. 13, figs. 113, 118, 119.

DIURELLA TENUIOR (Gosse).

? *Heterognathus notommata* Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 53, pl. 12, fig. 108.
Cœlopus tenuior Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 68, pl. 20, fig. 19.
Mastigocerca flectocaudatus Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 119, pl. 8, fig. 6.
Diurella tenuior Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 308, pl. 1, figs. 7–10.

DIURELLA TIGRIS (Müller).

Trichoda tigris Müller, Anim. Infus., 1786, p. 206, pl. 29, fig. 8.
Diurella tigris Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 5, 1824, p. 568.
Trichocerca tigris Blainville, Dict. Sci. Nat., vol. 60, 1830, p. 150.
Notommata tigris Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 215.
Plagiognatha tigris Dujardin, Hist. Nat. Zooph., 1841, p. 652=*Notommata tigris* Ehrenberg, which Dujardin says is not *Trichoda tigris* Müller.
Heterognathus macrodactylus Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 52, pl. 12, fig. 105.
Scaridium tigris Schoch, Mikr. Thiere Süssw.-Aquar., 1868, p. 30, pl. 7, fig. 6.
Monommata tigris Bartsch, Jahresh. Naturk. Württemberg, vol. 26, 1870, p. 344.
Rattulus tigris Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 65, pl. 20, fig. 13.

Jennings accuses Bory de St. Vincent of confusing *Diurella tigris* (Müller) and *Diurella porcellus* (Gosse). This is absolutely without justification; Bory de St. Vincent never "mixed" animals; mixing names was his specialty. As far as can be judged from his writings, he never saw a rotifer. He claims (Enc. Méth., Zooph., Introduction to Art. Microscopiques) to have used the microscope for 25 years, and to have refound nearly all of Müller's species in the neighborhood of Paris. Remembering that Müller described only about 75 species of rotifers, it is taxing one's credulity to believe that anybody could find all, or nearly all, of these (including marine species? at Paris?) without adding a single new species. He did add one new name, on the strength of his own observation, *Testudinella argula*, but, according to Ehrenberg, this was a larval Copepod. His "new names" are based on descriptions and figures by Joblot (forsooth!), Bosc, Baker, etc.; he also gave new specific names (probably "more descriptive"!) to the majority of Müller's species.

The confusion of *Diurella tigris* and *Diurella porcellus* was started by Eyferth and added to by Eckstein and Tessin, who both appear to have depended to a large extent upon Eyferth. It should be added that Jennings did not have access to Bory de St. Vincent's publications at the time he revised the *Rattulidæ*.

DIURELLA UNCINATA (Voigt).

Cœlopus uncinatus Voigt, Zool. Anz., vol. 25, 1902, p. 679.
Diurella uncinata Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 319.
? *Diurella brevistyla* Lucks, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 128, text fig.

DIURELLA WEBERI Jennings.

Diurella weberi Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 309, pl. 1, figs. 11–14.
Cœlopus weberi Hilgendorf, Trans. New Zealand Inst., vol. 35, 1903, p. 269.
Rattulus unicornuta Hilgendorf, Trans. New Zealand Inst., vol. 35, 1903, p. 270.

Doubtful species:

Cœlopus minutus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 70, pl. 20, fig. 20.

Genus DRILOPHAGA Vejdovský.

Drilophaga Vejdovský, Sitzungsber. Böhm. Ges. Wiss. Prag (for 1882), 1883, p. 390.
Type (monotype).—*Drilophaga bucephalus* Vejdovský.

DRILOPHAGA BUCEPHALUS Vejdovský.

Drilophaga bucephalus Vejdovský, Sitzungsber. Böhm. Ges. Wiss. Prag (for 1882), 1883, p. 390, pl. 1, figs. 1–8.

DRILOPHAGA DELAGEI de Beauchamp.

Drilophaga delagei de Beauchamp, Bull. Soc. Zool. France, vol. 29, 1904, p. 159, fig.

ECCLISSA Schrank.

Ecclissa Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 101, to Protozoa.
Type (by present designation).—*Ecclissa nigra* (Müller) = *Vorticella nigra* Müller.

Ecclissa nigra (Müller).
Vorticella nigra Müller, Anim. Infus., 1786, p. 263, pl. 37, fig. 1–4.
Ecclissa nigra Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 101.

Genus ELOSA Lord.

Elosa Lord, Int. Journ. Micr. Nat. Sci., vol. 10, 1891, p. 323.
Type (monotype).—*Elosa worrallii* Lord.

ELOSA WORRALLII Lord.

Elosa worrallii Lord, Int. Journ. Micr. Nat. Sci., vol. 10, 1891, p. 323, pl. 19.

Genus EMBATA Bryce.

Embata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.
Type (by designation of Woodcock, Int. Cat. Sci. Lit., vol. 10, 1911, Zoology, VI, p. 45).—*Embata parasitica* (Giglioli)=*Callidina parasitica* Giglioli.

EMBATA COMMENSALIS (Western).

Philodina commensalis Western, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 156.
Embata commensalis Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

EMBATA HAMATA (Murray).

Philodina hamata Murray, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 173, pl. 2, fig. 7.
Embata hamata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

EMBATA LATICEPS (Murray).

Philodina laticeps Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 381, pl. 7, fig. 11.

Embata laticeps Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

EMBATA LATICORNIS (Murray).

Philodina laticornis Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 380, pl. 7, fig. 12.

Embata laticornis Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

EMBATA PARASITICA (Giglioli).

? *Siphonostoma parasiticum* Zenker, De Gammari pulicis hist. nat., 1832, p. 19, fig. Y. Type (monotype) of genus *Siphonostoma* Zenker, 1832; not *Siphonostoma* Swainson, 1840, Mollusca (=Guilding, manuscript name); not *Siphonostoma* Rathke, 1842, Annulata; not *Siphonostoma* Kaup, 1856, Pisces.

Callidina parasitica Giglioli, Quart. Journ. Micr. Sci., n. ser., vol. 3, 1863, p. 237, pl. 11.

Embata parasitica Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

Genus ENCENTRUM Ehrenberg.

Encentrum Ehrenberg, Infusionsth., 1838, p. 450. No species named.

Type (by present designation).—*Encentrum marinum* (Dujardin)=*Furcularia marina* Dujardin.

De Beauchamp suggests in Arch. Zool. Expér., sér. 4, vol. 10, p. 225, the union in one genus of the following species: *Furcularia marina* Dujardin, *Pleurotrocha marina* Bergendal, *Pleurotrocha littoralis* Levander, *Pleurotrocha bidentata* Lie-Pettersen, *Proales felis* (Müller), *Distemma forcipatum* Ehrenberg, *Distemma raptor* Gosse, *Diglena clastopis* Gosse, *Diglena rosa* Gosse, *Diglena rousseleti* Lie-Pettersen, and *Taphrocampa saundersiae* Hudson. As Ehrenberg proposed the genus *Encentrum* for *Distemma*-species with forcipate trophi, it seems advisable to utilize this name for the proposed group, as *Distemma* is a synonym for *Dicranophorus* Nitzsch. A thorough revision is badly needed, but difficult, as the original descriptions are in most cases very vague.

Diglena bidentata (Lie-Pettersen).

Pleurotrocha bidentata Lie-Pettersen, Bergens Mus. Aarb., 1905, No. 10, p. 32, pl. 2, fig. 6, 7.

Diglena bidentata v. Hofsten, Zool. Bidr. Uppsala, vol. 1, 1912, p. 210, text fig.

Diglena caudata Ehrenberg.

? *Vorticella furcata* Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 110.

? *Brachionus bicaudatus* Schrank, Beytr. Naturg., 1776, p. 105, pl. 4, figs. 17, 18.

? *Trichoda bilunis* Müller, Anim. Infus., 1786, p. 204, pl. 29, fig. 4.

? *Furcularia furcata* Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 39.

? *Diurella lunulina* Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 5, 1824, p. 568=*Trichoda bilunis* renamed.

? *Furcocerca serrata* Bory de St. Vincent, Dict. Class. Hist. Nat. vol. 7, 1825, p. 83=*Vorticella furcata* renamed.

Diglena caudata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 205.

Diglena biraphis Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 200.

Diglena circinator Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 50, pl. 19, fig. 4.

Diglena clastopis Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 52, pl. 19, fig. 5.

Diglena ferox (Western).

Pleurotrocha grandis Western, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1891, p. 320, pl. 21, fig. 3.

Diglena ferox Western, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 155= *Pleurotrocha grandis* renamed.

Diglena marina (Dujardin).

Furcularia marina Dujardin, Hist. Nat. Zooph., 1841, p. 649, pl. 22, fig. 4.

Distemma platyceps Gosse, Journ. Royal Micr. Soc., 1887, p. 866, pl. 14, fig. 12.

Pleurotrocha marina Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 50, pl. 1, fig. 13.

Diglena marina v. Hofsten, Zool. Bidr. Uppsala, vol. 1, 1912, p. 203, text fig.

Diglena permollis Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 52, pl. 19, fig. 11.

Diglena rosa Gosse, Journ. Royal Micr. Soc., 1887, p. 865, pl. 14, fig. 11.

Diglena rousseleti Lie-Pettersen, Bergens Mus. Aarb., 1905, No. 10, p. 34, pl. 2, figs. 9–11.

Distemma raptor Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 54, pl. 19, fig. 1.

Pleurotrocha constricta Ehrenberg.

Pleurotrocha constricta Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 129.

Theora constricta Eyferth, Einf. Lebensf., 1878, p. 83.

Pleurotrocha leptura Ehrenberg.

Pleurotrocha leptura Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 129.

Theora leptura Eyferth, Einf. Lebensf., 1878, p. 83.

Pleurotrocha littoralis Levander, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 28, pl. 1, fig. 11.

Proales felis (Müller).

Vorticella felis Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 108.

Notommata felis Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46.

Theora felis Eyferth, Einf. Lebensf., 1878, p. 83.

Proales felis Hudson and Gosse, Rotifera, 1886, vol. 2, p. 36, pl. 18, fig. 17.

Diglena felis Bilfinger, Jahresh. Naturk. Württemberg, vol. 50, 1894, p. 46.

Proales mirabilis Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 131, pl. 1, figs. 26–28.

Taphrocampa nitida Lord, Journ. Quekett Micr. Club, ser. 2, vol. 7, 1898, p. 75, pl. 7, fig. 1.

Taphrocampa saundersiæ Hudson, Journ. Royal Micr. Soc., 1885, p. 614, pl. 12, fig. 9.

Theorus uncinatus Ehrenberg.

Theorus uncinatus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 221.

Theora uncinata Eyferth, Mikr. Süsswasserbew., 1877, p. 51.

Pleurotrocha mustela Milne, Proc. Philos. Soc. Glasgow, vol. 16, 1885, p. 188, pl. 5, figs. 1, 2, 4–8.

Diglena mustela Hudson and Gosse, Rotifera, Suppl., 1889, p. 30, pl. 33, fig. 14.

Genus ENTEROPLEA Ehrenberg.

Enteroplea Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46 = *Triphylus* Hudson, Hudson and Gosse, Rotifera, Suppl., 1889, p. 19.

Type (monotype).—*Enteroplea lacustris* Ehrenberg.

ENTEROPLEA LACUSTRIS Ehrenberg.

Enteroplea lacustris Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46.

Diglena lacustris Ehrenberg, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, Phytozoa Polypi, fol. b (second page).

Triphylus lacustris Hudson, Hudson and Gosse, Rotifera, Suppl., 1889, p. 19, pl. 32, fig. 16. Type (monotype) of genus *Triphylus* Hudson, 1889.

Genus EOSPHORA Ehrenberg.

Eosphora Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 47.
Type (monotype).—*Eosphora najas* Ehrenberg.

EOSPHORA DIGITATA Ehrenberg.

Eosphora digitata Ehrenberg, Infusionsth., 1838, p. 452, pl. 56, fig. 8.
Furcularia digitata Dujardin, Hist. Nat. Zooph., 1841, p. 650.
Notommata digitata Bartsch, Jahresh. Naturk. Württemberg, vol. 26, 1870, p. 339.

EOSPHORA ELONGATA Ehrenberg.

Eosphora elongata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 140.
Notommata elongata Bartsch, Jahresh. Naturk. Württemberg, vol. 26, 1870, p. 339.
? *Eosphora striata* Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 57, pl. 4, fig. 5.

EOSPHORA NAJAS Ehrenberg.

Eosphora najas Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, pp. 47, 84, pl. 7, fig. 3.
Furcularia najas Dujardin, Hist. Nat. Zooph., 1841, p. 650.
Notommata eosphora Bartsch, Jahresh. Naturk. Württemberg, vol. 26, 1870, p. 339.

Doubtful species:

Eosphora caribæa Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 56, pl. 13, fig. 116.

Genus EPIPHANES Ehrenberg.

Epiphanes Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 134, footnote= *Ctenodon* Ehrenberg, Infusionsth., 1838, p. 432. [*Type* (by present designation).—*Notommata clavulata* Ehrenberg; not *Ctenodon* Swainson, 1839, Pisces]= *Notops* Hudson, Hudson and Gosse, Rotifera, 1886, vol. 2. p. 11.
Type (monotype).—*Epiphanes clavulata* (Ehrenberg)=*Notommata clavulata* Ehrenberg.

EPIPHANES BRACHIONUS (Ehrenberg).

Notommata brachionus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1835), 1837, p. 176.
Brachionus brachionus Eyferth, Einf. Lebensf., 1878, p. 82.
Notops brachionus Hudson, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 11, pl. 15, fig. 1.
Hydatina brachionus Acloque, Faune de France, vol. 4, 1899, p. 247.
Notops brachionus spinosus Rousselet, Journ. Royal Micr. Soc., 1901, p. 241.

EPIPHANES CLAVULATA (Ehrenberg).

Notommata clavulata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 133.
Notops clavulatus Hudson, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 12, pl. 15, fig. 3. Type (by present designation) of genus *Notops* Hudson, 1886.
? *Notops lotos* Thorpe, Journ. Royal Micr. Soc., 1893, p. 152, pl. 3, fig. 8.
Hydatina clavulata Acloque, Faune de France, 1899, p. 247.

EPIPHANES PELAGICA (Jennings).

Notops pelagicus Jennings, Bull. U. S. Fish Comm., vol. 19 (for 1899), 1900, p. 82, pl. 15, figs. 7–9.

EPIPHANES SENTA (Müller).

Vorticella senta Müller, Verm. Terr. Fluv., vol. 1, pl. 1, 1773, p. 109.
Furcularia senta Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 38.
Hydatina senta Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 45, pl. 8.

Enteroplea hydatina Ehrenberg, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, Phytozoa Polypi, fol. b (second page).

? *Hydatina chilensis* Schmarda, Neue Wirbell. Thiere, 1859, vol. 1, p. 51, pl. 12, fig. 103.

? *Hydatina macrognatha* Schmarda, Neue Wirbell. Thiere, 1859, vol. 1, p. 51.

Hydatina monops Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 114, pl. 8, fig. 3.

? *Hydatina oblonga* Daday, Math. Term. Ért., vol. 26, 1908, p. 33.

As explained under *Hydatina*, this name is preoccupied; comparison with *Epiphanes clavulata* (Ehrenberg) does not reveal any difference that would warrant the creation of a new genus for this species. It should be added that the generic identity of the two species was suggested by Wesenberg-Lund, Vidensk. Meddel. Naturh. Foren. Kjøbenhavn, 1899, without his having had the opportunity of examining *Epiphanes clavulata* (Ehrenberg).

Species of uncertain position:

Notops forcipita Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 79, pl. 6, fig. 5.

Notops macrourus Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 226, pl. 7, figs. 7, 16.

Notops quadrangularis Glasscott.

Notops quadrangularis Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 43, pl. 3, fig. 3.

Furcularia quadrangularis Murray, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 180.

ERETMIA Gosse.

Murray, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 182: according to Rousselet, the various "species" of this genus are Rhizopod shells, into which a rotifer has somehow managed to get in.

The following names have been used:

Eretmia cubcutes Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 128, pl. 29, fig. 11.

Eretmia pentathrix Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 128, pl. 29, fig. 12.

Eretmia tetrathrix Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 134, pl. 28, fig. 1.

Ertemias (misprint?) *tetrathrix* Hood, Sci. Goss., vol. 24, 1888, p. 27, fig.

Eretmia trithrix Gosse, Hudson and Gosse, Rotifera, 1886, vol, 2, p. 134, pl. 28, fig. 2.

Genus EUCHLANIS Ehrenberg.

Euchlanis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 131.

Type (by designation of Ehrenberg, Infusionsth., 1838, p. 464).—*Euchlanis dilatata* Ehrenberg.

EUCHLANIS ALATA Voronkov.

Euchlanis alata Voronkov, Ann. Mus. Zool., St. Petersburg, vol. 16, 1912, p. 210, text fig.

EUCHLANIS DEFLEXA Gosse.

Euchlanis deflexa Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 200.

EUCHLANIS DILATATA Ehrenberg.

Euchlanis dilatata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 131, pl. 4, fig. 3.
Euchlanis hipposideros Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 201.

EUCHLANIS LYRA Hudson.

Euchlanis lyra Hudson, Hudson and Gosse, Rotifera, 1886, p. 89, pl. 23, fig. 1.

EUCHLANIS MACRURA Ehrenberg.

Euchlanis macrura Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 131, pl. 3, fig. 7.
Euchlanis ovalis Dujardin, Hist. Nat. Zooph., 1841, p. 635.

According to Dujardin, Ehrenberg's *Euchlanis macrura* is Müller's *Brachionus ovalis*.

Euchlanis dilatata macrura Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 166, text fig.

EUCHLANIS OROPHA Gosse.

Euchlanis oropha Gosse, Journ. Royal Micr. Soc., 1887, p. 5, pl. 2, fig. 16.
Euchlanis parva Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 4, p. 369, pl. 24, fig. 12.

EUCHLANIS PANNONICA Bartsch.

Euchlanis pannonica Bartsch, Rotat. Hungariæ, 1877, pp. 45, 52, pl. 3, fig. 28.

EUCHLANIS PYRIFORMIS Gosse.

Euchlanis pyriformis Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, p. 201.

EUCHLANIS TRIQUETRA Ehrenberg.

Euchlanis triquetra Ehrenberg, Infusionsth., 1838, p. 461, pl. 57, fig. 8.
Euchlanis hyalina Leydig, Zeitschr. Wiss. Zool., vol. 6, 1854, p. 60.
Euchlanis unisetata Leydig, Zeitschr. Wiss. Zool., vol. 6, 1854, p. 61, pl. 4, fig. 45.
Euchlanis triquetra hyalina Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 168, text fig.

Doubtful or insufficiently described species:

Euchlanis brachydactyla Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, 1854, p. 18, pl. 3, fig. 2.
Euchlanis conica Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 57, pl. 13, fig. 119.
Euchlanis cristata Daday, Term. Füz., vol. 25, 1902, p. 204, pl. 2, fig. 1.
Euchlanis oblonga Dujardin, Hist. Nat. Zooph., 1841 (Explication des planches, p. 12), pl. 19, fig. 4.
Euchlanis tetraodon Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 57, pl. 13, fig. 118.

Genus FILINIA Bory de St. Vincent.

Filinia Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 6, 1824, p. 507=*Filina* Bory de St. Vincent, Class. Anim. Micr., 1826, p. 69=*Triarthra* Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 138.
Type (monotype).—*Filinia passa* (Müller)=*Brachionus passus* Müller.

FILINIA BRACHIATA (Rousselet).

Triarthra brachiata Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1901, p. 143, pl. 8, figs. 7, 8.

FILINIA CORNUTA (Weisse).

Triarthra cornuta Weisse, Bull. Phys.-Math. Acad. Sci. St. Petersburg, vol. 6, 1847, p. 110, figs. 5–13.

Triartha breviseta Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 200.

FILINIA LONGISETA (Enrenberg).

Triarthra longiseta Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 222, pl. 8, fig. 1.

Triarthra terminalis Plate, Jenaische Zeitschr. Naturw., vol. 19, 1886, p. 19.

Pedetes saltator Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 8, pl. 13, fig. 10. As pointed out by Wesenberg-Lund, this was evidently a *longiseta* with the posterior spine broken off.

Triarthra longiseta limnetica Zacharias, Forschungsber. Biol. Stat. Plön, vol. 1, 1893, p. 23.

Triarthra thranites Skorikov, Trav. Soc. Natural. Charkov., vol. 30, 1896, p. 277, pl. 7, figs. 5, 6.

FILINIA PASSA (Müller).

Brachionus passus Müller, Anim. Infus., 1786, p. 353, pl. 49, figs. 14–16.

Filinia passa Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 6, 1824, p. 507.

Filina mülleri Bory de St. Vincent, Class. Anim. Micr., 1826, p. 69. Type (monotype) of genus *Filina* Bory de St. Vincent, 1826=*Brachionus passus* renamed.

Triarthra mystacina Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 138. Type (monotype) of genus *Triarthra* Ehrenberg, 1832.

Genus FLOSCULARIA Cuvier.

Floscularia Cuvier, Tabl. Élém. Hist. Nat., 1798, p. 664=*Melicerta* Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 310=*Tubicolaria* Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 53; not *Floscularia* Ehrenberg, 1832.

Type (by present designation).—*Floscularia ringens* (Linnæus)=*Serpula ringens* Linnæus.

Cuvier's description is as follows:

Les genres des zoophytes sont:

I. Les Flosculaires (*Floscularia*).

La tige est un petit tube conique, simple, qui paroît, au microscope, composé de pièces hexagones, toutes marquées d'un point. L'animal est un rotifére, mais il ne paroît pas intimement lié á son étui, et peut-être auroît-on dû le placer ailleurs q'ici. La tète paroît comme une fleur à quatre lobes qui tourneroit perpétuellement dans le mème sens. On le trouve dans l'eau douce, sur les feuilles, etc. Quelquefois de nouveaux tubes se fixe contre le premier.

While the transfer of the name *Floscularia* is regrettable, there appears to be no help for it; Cuvier's description is so unmistakable, that no one is likely to question the identity of the animal. In fact, given the same amount of space, it would be difficult to improve upon it. That it should have been so completely forgotten, is rather remarkable. Ehrenberg's silence on this point is inexplicable, as he refers to Cuvier's Tableau Élém. Hist. Nat. in other places.

FLOSCULARIA CONIFERA (Hudson).

Melicerta conifera Hudson, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 72, pl. 5, fig. 2.

FLOSCULARIA JANUS (Hudson).

Œcistes janus Hudson, Journ. Royal Micr. Soc., 1881, p. 1, pl. 1.
Melicerta janus Hudson and Gosse, Rotifera, 1886, vol. 1, p. 74, pl. 7, fig. 1.
Melicerta flocculosa Kellicott, Proc. Amer. Soc. Micr., vol. 18, 1896, p. 157.

FLOSCULARIA MELICERTA (Ehrenberg).

Lacinularia melicerta Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 124.
Tubicolaria najas Ehrenberg, Infusionsth., 1838, p. 399, pl. 45, fig. 1=*Lacinularia melicerta* renamed.
Melicerta tyro Hudson, Monthly Micr. Journ., vol. 14, 1875, p. 225, pl. 119.
Melicerta tubicolaria Hudson and Gosse, Rotifera, 1886, vol. 1, p. 72, pl. 5, fig. 3.
Melicerta fimbriata Shephard and Stickland, Victorian Natural., vol. 16, 1899, p. 38, fig.
Melicerta najas de Beauchamp, Arch. Zool. Exp., ser. 4, vol. 10, 1909, p. 85.
Melicerta melicerta Collin, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 55, text fig.

FLOSCULARIA PEDUNCULATA (Jolite).

Melicerta pedunculata Joliet, Arch. Zool. Exp., ser. 2, vol. 1, 1883, p. 132.

FLOSCULARIA RINGENS (Linnæus).

Serpula ringens Linnæus, Syst. Nat., ed. 10, 1758, p. 788.
Brachionus tubifex Pallas, Elench. Zooph., 1766, p. 91.
Sabella ringens Linnæus, Syst. Nat., ed. 12, 1767, vol. 1, pt. 2, p. 1268.
Melicerta ringens Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 310. Type (monotype) of genus *Melicerta* Schrank, 1803.
Rotifer quadricircularis Dutrochet, Ann. Mus. Hist. Nat., vol. 19, 1812, p. 375, pl. 18, figs. 2–8.
Tubicolaria quadriloba Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 53. Type (by present designation) of genus *Tubicolaria* Lamarck, 1816.
Tubicolaria tetrapetala Cuvier, Règne Anim., 1817, vol. 4, p. 91.
Vorticella tetrapetala Cuvier, Règne Anim., 1817, vol. 4, p. 91.
Melicerta quadriloba Goldfuss, Handb. Zool., 1820, p. 76; also Schweigger, Handb. Naturg., 1820, p. 408.
Tubicolaria quadrilobata Blainville, Dict. Sci. Nat., vol. 56, 1828, p. 17.

Doubtful or insufficiently described species:

Floscularia brachiura Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 224, pl. 7, figs. 1, 2.
Floscularia chimæra Hudson, Hudson and Gosse, Rotifera, Suppl., 1889, p. 4, pl. 32, fig. 2.
Melicerta alba (Lamarck).
Tubicolaria alba Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 53.
Melicerta alba Schweigger, Handb. Naturg., 1820, p. 408.
Melicerta copeii Weir, Pop. Sci., New York, vol. 33, 1899, p. 241, fig.
Tubicolaria coprophila Schoch, Mikr. Thiere Süssw.-Aquar., 1868, p. 18, pl. 3, fig. 3.
Tubicolaria cratægaria (Müller).
Vorticella cratægaria Müller, Anim. Infus., 1786, p. 277, pl. 38, fig. 18; not a rotifer.
Tubicolaria cratægaria Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 53.

Tubicolaria fraxinina (Müller).

Vorticella fraxinina Müller, Anim. Infus., 1786, p. 276, pl. 38, fig. 17; not a rotifer.

Tubicolaria fraxinina Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 53.

Tubicolaria limacina (Müller).

Vorticella limacina Müller, Anim, Infus., 1786, p. 275, pl. 38, fig. 16; not a rotifer.

Tubicolaria limacina Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 53.

Tubicolaria thorii Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 755.

Tubicolaria tuba Costa, Fauna Regno Napoli, Infusori, 1838, p. 20, pl. 2, fig. 11; not a rotifer.

FURCOCERCA Lamarck.

Furcocerca Lamarck, Hist. Nat. Anim. sans Vert., vol. 1, 1815, p. 443, to *Gastrotricha*. *Type* (by present designation).—*Furcocerca podura* (Müller)=*Cercaria podura* Müller.

Furcocerca podura (Müller).

Cercaria podura Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 66.

Furcocerca podura Lamarck, Hist. Nat. Anim. sans Vert., vol. 1, 1815, p. 448.

FURCULARIA Lamarck.

Furcularia Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 39. *Type* (by present designation).—*Rotaria rotatoria* (Pallas) as *Furcularia rediviva* (Cuvier).

Ehrenberg (Infusionsth., 1838) rather disingenuously informs us that the species of Lamarck's genus *Furcularia* have been distributed among other genera, so that not a single one remains. This did not prevent him from describing several new species with the generic name *Furcularia*, in accordance with his peculiar understanding of a *nomen vacuum*. It appears from what he says under *Megalotrocha*, in Symb. Phys. Anim. Evert., that, in his opinion, when all the species had been removed from a genus, its name became a *nomen vacuum*, and could be used again for any animal in need of a name.

According to Ehrenberg, "Cuvier und Schweigger sahen *Rotifer* als den Typus der Furcularien an." This, added to the fact that Lamarck in 1801 had established a monotypic genus, *Urceolaria*, for *Rotifer redivivus* Cuvier, seemed abundant justification for the designation of the type as above. It should be noted that *Rotifer* Cuvier also was a monotypic genus. The species listed here are insufficiently described, and no position can be assigned to them on the information available.

Furcularia boltoni Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 45, pl. 20, fig. 2.

Furcularia canicula (Müller).

Vorticella canicula Müller, Anim. Infus., 1786, p. 300, pl. 42, fig. 21.

Furcularia canicula Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 39.

Furcularia catulus (Müller).

Vorticella catulus Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 108.

Furcularia catulus Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 39.

Furcularia lophyra Gosse, Journ. Royal Micr. Soc., 1887, p. 4, pl. 2, fig. 13.

Furcularia molaris Gosse, Journ. Royal Micr. Soc., 1887, p. 863, pl. 14, fig. 6.

Furcularia neapolitana Daday, Ért. Term. Kör., vol. 19, No. 17, 1890, p. 14, pl. 1, figs. 5, 22.
Furcularia nephelis Saizeff, Trav. Soc. Nat. St. Petersburg, Compt. Rend., vol. 33, 1902, p. 11.
Furcularia rigida Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 57, pl. 4, fig. 4.
Furcularia tomentosa Dujardin, Hist. Nat. Zooph , 1841 (Explication des planches, p. 12), pl. 19, fig. 5.

Genus GASTROPUS Imhof.

Gastropus Imhof, Zool. Anz., vol. 11, 1898, p. 171=*Hudsonia* Hood, Journ. Royal Micr. Soc., 1893, p. 281=*Hudsonella* Zacharias, Forschungsber. Biol. Stat. Plön, vol. 1, 1893, p. 25.
Type (by present designation).—*Gastropus stylifer* Imhof.

GASTROPUS HYPTOPUS (Ehrenberg).

Notommata hyptopus Ehrenberg, Infusionsth., 1838, p. 426, pl. 50, fig. 6.
Notops hyptopus Hudson and Gosse, Rotifera, 1886, vol. 2, p. 13, pl. 15, fig. 2.
Gastropus hyptopus Weber, Rev. Suisse Zool., vol. 5, 1898, p. 752.
Gastropus bretensis Linder, Rev. Suisse Zool., vol. 12, 1904, p. 237, pl. 4, fig. 5.

GASTROPUS MINOR (Rousselet).

Notops minor Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1892, p. 359, pl. 24, figs. 9, 10.
Hypopus ritenbenki Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 45, pl. 1, fig. 6.
Notops fennicus Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 120, pl. 1, figs. 23, 24.
Gastropus minor Weber, Rev. Suisse Zool., vol. 5, 1898, p. 752.
Postclausa minuta Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 125, pl. 10, fig. 11. Type (by present designation) of genus *Postclausa* Hilgendorf, 1899.
Postclausa circularis Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 126, pl. 10, fig. 12.

GASTROPUS STYLIFER Imhof.

Gastropus stylifer Imhof, Zool. Anz., vol. 14, 1891, p. 37.
Notops pygmæus Calman, Ann. Scottish Nat. Hist., 1892, p. 240, pl. 8, fig. 1.
(*Notops ruber* Hood, Journ. Royal Micr. Soc., 1892, p. 911: *nomen nudum.*)
Hudsonella picta Zacharias, Forschungsber. Biol. Stat. Plön., vol. 1, 1893, p. 25, fig. 4. Type (monotype) of genus *Hudsonella* Zacharias, 1893.
Hudsonia ruber Hood, Journ. Royal Micr. Soc., 1893, p. 281. Type (monotype) of genus *Hudsonia* Hood, 1893.
Hudsonella pygmæa Zacharias, Forschungsber. Biol. Stat. Plön., vol. 2, 1894, p. 69.
? *Sacculus orbicularis* Kellicott, Proc. Amer. Soc. Micr., vol. 19, 1897, p. 46, fig. 1.
? *Ascomorpha orbicularis* Jennings, Amer. Natural., vol. 35, 1901, p. 738.

Imhof, in Zool. Anz., vol. 11, 1888, p. 171, used two names, *Gastropus ehrenbergii* and *Gastropus stylifer*, giving only one description, without any clue to the name intended for it. This was not given until 1891, Zool. Anz., vol. 14, p. 37, where he informs us that *Gastropus ehrenbergii* is *Euchlanis lynceus* Ehrenberg renamed. Consequently, *Gastropus stylifer* must be dated 1891.

Genus HABROTROCHA Bryce.

Habrotrocha Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.
Type (by designation of Woodcock, Int. Cat. Sci. Lit., vol. 10, 1911, Zoology, VI, p. 45).—*Habrotrocha angusticollis* (Murray)=*Callidina angusticollis* Murray.

HABROTROCHA ACORNIS Murray.

Habrotrocha acornis Murray, Journ. Royal Micr. Soc., 1911, p. 13, pl. 2, fig. 7.

HABROTROCHA AMPULLA Murray.

Habrotrocha ampulla Murray, Journ. Royal Micr. Soc., 1911, p. 11, pl. 2, fig. 6.

HABROTROCHA ANGULARIS (Murray).

Callidina angularis Murray, British Antarctic Exp., vol. 1, 1910, p. 49, pl. 12, fig. 12.
Habrotrocha angularis Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA ANGUSTICOLLIS (Murray).

Callidina angusticollis Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 374, pl. 3, fig. 2.
Habrotrocha angusticollis Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA ANGUSTICOLLIS ATTENUATA (Murray).

Callidina angusticollis attenuata Murray, Journ. Royal Micr. Soc., 1906, p. 640, pl. 19, fig. 9.
Habrotrocha angusticollis attenuata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA ANNULATA (Murray).

Callidina annulata Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 375, pl. 3, fig. 3.
Habrotrocha annulata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA APPENDICULATA Murray.

Habrotrocha appendiculata Murray, Journ. Royal Micr. Soc., 1911, p. 14, pl. 1, fig. 4.

HABROTROCHA ASPERA (Bryce).

Callidina aspera Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1892, p. 23, pl. 2, fig. 4.
Habrotrocha aspera Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA AURICULATA Murray.

Habrotrocha auriculata Murray, Journ. Royal Micr. Soc., 1911, p. 16, pl. 2, fig. 8.

HABROTROCHA BIDENS (Gosse).

Callidina bidens Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 202.
Habrotrocha bidens Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA BROCKLEHURSTI Murray.

Habrotrocha brocklehursti Murray, Journ. Royal Micr. Soc., 1911, p. 15, pl. 1, fig. 5.

HABROTROCHA CAUDATA Murray.

Habrotrocha caudata Murray, Journ. Royal Micr. Soc., 1911, p. 10, pl. 1, fig. 1.

HABROTROCHA COLLARIS (Ehrenberg).

Philodina collaris Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 148.
Habrotrocha collaris Bryce, Journ. Quekett Micr. Soc., ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA CONSTRICTA (Dujardin).

Callidina constricta Dujardin, Hist. Nat. Zooph., 1841, p. 658, pl. 17, fig. 3.
Macrotrachela constricta Milne, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 138, pl. 1, figs. 7, 8; pl. 2, fig. 6.
Habrotrocha constricta Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA CRENATA (Murray).

Callidina crenata Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 376, pl. 4, fig. 6.
Habrotrocha crenata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA CUCULLATA Murray.

Habrotrocha cucullata Murray, Ann. Transvaal Mus., vol. 3, 1911, p. 13, pl. 3, fig. 20.

HABROTROCHA ELEGANS (Milne).

Macrotrachela elegans Milne, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 138, pl. 1, figs. 3, 9.
Callidina venusta Bryce, Proc. Zool. Soc. London, 1897, p. 796.
Habrotrocha elegans Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA EREMITA (Bryce).

Callidina eremita Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 452, pl. 23, fig. 3.
Habrotrocha eremita Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA LATA (Bryce).

Callidina lata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1892, p. 22, pl. 2, fig. 2.
Habrotrocha lata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA LEITGEBII (Zelinka).

Callidina leitgebii Zelinka, Zeitschr. Wiss. Zool., vol. 44, 1886, p. 416.
Habrotrocha leitgebii Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA LONGICEPS (Murray).

Callidina longiceps Murray, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 175, pl. 3, fig. 11.
Habrotrocha longiceps Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA MACULATA Murray.

Habrotrocha maculata Murray, Journ. Royal Micr. Soc., 1911, p. 292, pl. 8, fig. 12.

HABROTROCHA MICROCEPHALA (Murray).

Callidina microcephala Murray, Proc. Royal Phys. Soc. Edinburgh, vol. 16, 1906, p. 223, pl. 7, fig. 2.
Habrotrocha microcephala Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75,

HABROTROCHA MINUTA (Murray).

Callidina minuta Murray, Trans. Royal Soc. Edinburgh, vol. 46, 1908, p. 194, pl. 1, figs. 11, 12.
Habrotrocha minuta Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA NODOSA (Murray).

Callidina crenata nodosa MURRAY, Journ. Royal Micr. Soc., 1906, p. 641, pl. 19, fig. 6.
Habrotrocha crenata nodosa BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.
Habrotrocha nodosa MURRAY, Journ. Royal Micr. Soc., 1911, p. 431, pl. 15, fig. 8.

HABROTROCHA PERFORATA (Murray).

Callidina perforata MURRAY, Journ. Royal Micr. Soc., 1906, p. 640, pl. 19, fig. 11.
Habrotrocha perforata BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA PERFORATA AMERICANA (Murray).

Callidina perforata americana MURRAY, Amer. Natural., vol. 41, 1907, p. 97, figs. 2, 3.
Habrotrocha perforata americana BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA PULCHRA (Murray).

Callidina pulchra MURRAY, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 376, pl. 4, fig. 5.
Habrotrocha pulchra BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA PUSILLA (Bryce).

Callidina pusilla BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 198, pl. 11, fig. 2.
Habrotrocha pusilla BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA PUSILLA TEXTRIX (Bryce).

Callidina pusilla textrix BRYCE, Proc. Zool. Soc. London, 1897, p. 797.
Habrotrocha pusilla textrix BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA RECLUSA (Milne).

Macrotrachela reclusa MILNE, Proc. Philos. Soc. Glasgow, vol. 20, 1889, p. 51, fig.
Callidina reclusa JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 68.
Habrotrocha reclusa BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA RŒPERI (Milne).

Macrotrachela rœperi MILNE, Proc. Philos. Soc. Glasgow, vol. 20, 1889, p. 50, fig.
Rotifer rœperi JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 43.
Habrotrocha rœperi BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA STRANGULATA Murray.

Habrotrocha strangulata MURRAY, Journ. Royal Micr. Soc., 1911, p. 172, pl. 4, fig. 6.

HABROTROCHA TRIDENS (Milne).

Macrotrachela tridens MILNE, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 137, pl. 1, fig. 2.
Callidina tridens JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 66, pl. 4, figs. 54, 55.
Habrotrocha tridens BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

HABROTROCHA TRIPUS (Murray).

Callidina tripus MURRAY, Amer. Natural., vol. 41, 1907, p. 99, figs. 5–7.
Habrotrocha tripus BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

Genus HARRINGIA de Beauchamp.

Harringia DE BEAUCHAMP, Bull. Soc. Zool. France, vol. 36, 1912, p. 223.
Type (by present designation).—*Harringia eupoda* (Gosse)=*Asplanchna eupoda* Gosse.

HARRINGIA EUPODA (Gosse).

Asplanchna eupoda GOSSE, Journ. Royal Micr. Soc., 1887, p. 5, pl. 2, fig. 18.
Asplanchnopus eupoda HUDSON and GOSSE, Rotifera, Suppl., 1889, p. 16, pl. 31, fig. 3.
Dinops longipes ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1891, p. 263.
Dinops eupoda ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1901, p. 12, pl. 1, fig. 6.
Harringia eupoda DE BEAUCHAMP, Bull. Soc. Zool. France, vol. 36, 1912, p. 224, text fig.

HARRINGIA ROUSSELETI de Beauchamp.

Harringia rousseleti DE BEAUCHAMP, Bull. Soc. Zool. France, vol. 36, 1912, p. 228, text fig.

HEPTAGLENA Schmarda.

Heptaglena SCHMARDA, only species *Heptaglena digitata* Schmarda, Denkschr., Akad. Wiss. Wien, vol. 1, 1850, pt. 2, p. 12, pl. 4, fig. I; unrecognizable.

HERTWIGIA Plate.

Hertwigia PLATE, Jenaische Zeitschr. Naturwiss., vol. 19, 1886, p. 26; not *Hertwigia* Schmidt, 1880, Porifera.

HETEROGNATHUS Schmarda.

Heterognathus SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 51; not *Heterognathus* Girard, 1854, Pisces; not *Heterognathus* Rey, 1888, Insecta.

Heterognathus brachydactylus SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 52, pl. 12, fig. 106; unrecognizable.

HEXARTHRA Schmarda.

Hexarthra SCHMARDA, only species *Hexarthra polyptera*, Schmarda, Denkschr., Akad. Wiss. Wien, vol. 7, 1854, p. 15, pl. 3, fig. 1; unrecognizable.

HEXASTEMMA Schmarda.

Hexastemma SCHMARDA, only species *Hexastemma melanoglena*, Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 60, pl. 14, fig. 129; insufficiently described.

HYDATINA Ehrenberg.

Hydatina EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 45; not *Hydatina* Schumacher, 1817, Mollusca.

Doubtful or insufficiently described species, to which no definite position can be assigned.

Hydatina brachydactyla EHRENBERG, Abh. Akad. Wiss. Berlin, (for 1833), 1834, p. 208.
Hydatina laticauda EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 127; dropped by Ehrenberg, Infusionsth., 1838, p. 418.

Hydatina leptocerca Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 128; dropped by Ehrenberg, Infusionsth., 1838, p. 418.
Hydatina terminalis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 128; dropped by Ehrenberg, Infusionsth., 1838, p. 418.
Hydatina tetraodon Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 51, pl. 12, fig. 104.

HYDRA Linnæus.

Hydra Linnæus, Syst. Nat., ed. 10, 1758, p. 816.
Type (by present designation).—*Hydra polypus* Linnæus; to Cœlenterata.

Hydra polypus Linnæus, Syst. Nat., ed. 10, 1758, p. 816.

HYDRIAS Ehrenberg.

Hydrias Ehrenberg, only species *Hydrias cornigera*, Ehrenberg, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, Phytozoa, fol. d (second page), pl. 2, II, Libyca, fig. 11; unrecognizable.

HYPOPUS Bergendal.

Hypopus Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 45; not *Hypopus* Dugés, 1834, Arachnidæ.

Genus KERATELLA Bory de St. Vincent.

Keratella Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 2, 1822, p. 470.
Type (monotype).—*Keratella quadrata* (Müller)=*Brachionus quadratus* Müller.

KERATELLA COCHLEARIS (Gosse).

Anuræa cochlearis Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 202.
Anuræa tecta Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 202.
Anuræa longistyla Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 62, pl. 14, fig. 132.
Anuræa longispina Imhof, Zool. Anz., vol. 6, 1883, p. 470, fig. 1.
Anuræa intermedia Imhof, Zool. Anz., vol. 8, 1885, p. 323.
Anuræa tuberosa Imhof, Zool. Anz., vol. 8, 1885, p. 323.
Anuræa cochlearis baltica Imhof, Zool. Anz., vol. 9, 1886, p. 614, *nomen nudum*.
Anuræa stipitata wartmanni Asper and Heuscher, Ber. St. Gallischen Nat. Ges. (for 1887-1888), 1889, p. 257, pl. 3, fig. 5.
Anuræa cochlearis carinata Levander, Medd. Soc. Fauna Flora Fennica, Häft 17, 1892, p. 142.
Anuræa cochlearis pellucida Imhof, Biol. Centralbl., vol. 12, 1892, 563, *nomen nudum*,
Anuræa cochlearis recurvispina Jägerskiöld, Zool. Anz., vol. 17, 1894, p. 19, fig. 2.
Anuræa cochlearis stipitata Weber, Rev. Suisse Zool., vol. 5, 1898, p. 712, pl. 25, fig. 9.
Anuræa cochlearis macracantha Lauterborn, Zool. Anz., vol. 21, 1898, p. 598, fig. 1.
Anuræa cochlearis tecta Lauterborn, Zool. Anz., vol. 21, 1898, p. 599, fig. 3.
Anuræa cochlearis hispida Lauterborn, Zool. Anz., vol. 21, 1898, p. 600, fig. 4.
Anuræa cochlearis irregularis Lauterborn, Zool. Anz., vol. 21, 1898, p. 601, fig. 5.
Anuræa cochlearis leptacantha Lauterborn, Verh. Nat.-Med. Ver. Heidelberg, n. ser., vol. 6, 1900, p. 428, pl. 1, fig. 24–25.
Anuræa tecta recurvispina Zernow, Izv. Obshch. Lı̃ub. ı̃Est., Moskva, vol. 98, 1901, p. 30, pl. 4, fig. 8.
Anuræa tecta cava Zernov, Izv. Obshch. Lı̃ub. ı̃Est., Moskva, vol. 98, 1901, p. 31, pl. 4, fig. 29.
Anuræa cochlearis revoluta Brehm, Verh. Ges. Deutscher Naturf. u. Aerzte, vol. 81, 1910, pt. 2, 1 Hälfte, p. 191.

KERATELLA CRUCIFORMIS (Thompson.)

Anuræa cruciformis Thompson, Proc. Liverpool Biol. Soc., vol. 6, 1892, p. 77.
Anuræa eichwaldi Levander, Acta Soc. Fauna Flora Fennica, vol. 12, 1894, No. 3, p. 62, pl. 3, fig. 41.

KERATELLA PALUDOSA (Lucks).

Anuræa paludosa Lucks, Rotatorienfauna Westpreussens, 1912, p. 152, text fig.

KERATELLA QUADRATA (Müller).

? *Brachionus squamula* Müller, Anim. Inf., 1786, p. 334, pl. 47, figs. 4–7.
Brachionus quadratus Müller, Anim. Inf., 1786, p. 354, pl. 49, figs. 12, 13.
Kerona octoceros Abildgaard, Skrivt. Naturh.-Selsk., Kjøbenhavn, vol. 3, 1793, p. 80, pl. 3, fig. 2.
? *Vaginaria squammula* Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 142.
? *Anourella squamula* Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 2, 1822, p. 470.
Keratella quadrata Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 2, 1822, p. 470.
Anourella luth Bory de St. Vincent, Class. Anim. Micr., 1826, p. 91.=*Keratella quadrata* renamed.
Anuræa squamula Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 144.
Anuræa aculeata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 145.
Anuræa testudo Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 145.
Anuræa valga Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 198.
Anuræa octoceros Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 199.
Anuræa curvicornis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 197.
Anuræa quadridentata Ehrenberg, Infusionsth., 1838, p. 504, pl. 62, fig. 2.
Anuræa falculata Ehrenberg, Infusionsth., 1838, p. 505, pl. 62, fig. 4.
Anourella aculeata Dujardin, Hist. Nat. Zooph., 1841, p. 627.
Anourella curvicornis Dujardin, Hist. Nat. Zooph., 1841, p. 627.
Anourella valga Dujardin, Hist. Nat. Zooph., 1841, p. 629.
Anuræa longicornis Schmarda, Denkschr. Akad. Wiss. Wien, vol. 1, pt. 2, 1850, p. 13, pl. 4, figs. III, 1, 2.
Anuræa brevispina Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 202.
Anuræa aculeata regalis Imhof, Zool. Anz., vol. 8, 1885, p. 325, no descr.
Anuræa procurva Thorpe, Journ. Royal Micr. Soc., 1891, p. 305, pl. 7, fig. 7.
Anuræa scutata Thorpe, Journ. Royal Micr. Soc., 1891, p. 306, pl. 7, fig. 8.
Anuræa aculeata resupina Imhof, Biol. Centralbl., vol. 12, 1892, p. 563, *nomen nudum*.
Anuræa aculeata dumasi Richard, Mém. Soc. Zool. France, vol. 7, p. 238.
Anuræa valga asymmetrica Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 229, pl. 7, fig. 11.
Anuræa valga monstrosa Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 229, pl. 7, fig. 12.
Anuræa aculeata asymmetrica Daday, Math. Term. Ért., vol. 12, 1894, p. 376.
Anuræa aculeata platei Jägerskiöld, Zool. Anz., vol. 17, 1894, p. 18, fig. 1.
Anuræa frenzeli Eckstein, Zeitschr. Fisch. u. Hilfsw., vol. 3, 1895, p. 265, fig. 7.
Anuræa aculeata valga Weber, Rev. Suisse Zool., vol. 5, 1898, p. 703, pl. 25, fig. 7.
Anuræa aculeata brevispina Weber, Rev. Suisse Zool., vol. 5, 1898, p. 705, pl. 25, figs. 10, 11.
Anuræa aculeata curvicornis Weber, Rev. Suisse Zool., vol. 5, 1898, p. 707, pl. 25, figs. 1–3.
Anuræa aculeata divergens Voigt, Zool. Anz., vol. 25, 1902, p. 82, fig.
Anuræa aculeata cochlearis Voigt, Zool. Anz., vol. 25, 1902, p. 679.
Anuræa valga tropica Apstein, Zool. Jahrb., Syst., vol. 25, 1907, p. 210, fig.

KERATELLA SERRULATA (Ehrenberg).

? *Brachionus pala* Müller, Anim. Inf., 1786, p. 335, pl. 48, figs. 1, 2.
? *Anourella pala* Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 2, 1822, p. 470. Type (by present designation) of genus *Anourella* Bory de St. Vincent, 1822.
? *Anourella cithara* Bory de St. Vincent, Class. Anim. Micr., 1826, p. 91= *Anourella pala* renamed.
Anuræa serrulata Ehrenberg, Infusionsth., 1838, p. 508, pl. 62, fig. 13.
Anuræa serrulata levanderi Lie-Pettersen, Bergens Mus. Aarb., 1909, No. 15, p. 78, pl. 2, figs. 20, 21.

Lie-Pettersen (Bergens Mus. Aarb., 1909, No. 15, p. 77) holds *Keratella serrulata* (Ehrenberg) to be a distinct species, differing from *Keratella quadrata* (Müller) in the shape of the posterior median field of the lorica.

KERATELLA STIPITATA (Ehrenberg).

Anuræa stipitata Ehrenberg, Infusionsth., 1838, p. 507, pl. 62, fig. 11.
Anourella stipitata Dujardin, Hist. Nat. Zooph., 1841, p. 626.

Species of uncertain position:

Anuræa angulata Daday, Math. Term. Ért., vol. 24, 1906, p. 57.
Anuræa clypeus Daday, Math. Term. Ért., vol. 24, 1906, p. 57.

KERONA Müller.

Kerona Müller, Anim. Infus., 1786, p. 233.
Type (by present designation).—*Kerona histrio* (Müller)=*Paramæcium histrio* Müller; to Protozoa.

Kerona histrio (Müller).
Paramæcium histrio Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 55.
Kerona histrio Müller, Anim. Infus., 1786, p. 235, pl. 33, figs. 3–4.

KLYPEOGLENA Bergendal.

Klypeoglena Bergendal, only species *Klypeoglena* (*Diglena*) *natans*, Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 96; insufficiently described.

Genus LACINULARIA Schweigger.

Lacinularia Schweigger, Handb. Naturg., 1820, p. 408=*Megalotrocha* Bory de St. Vincent, Class. Anim. Micr., 1826, p. 76.
Type (by present designation).—*Lacinularia flosculosa* (Müller)=*Vorticella flosculosa* Müller.

LACINULARIA ELLIPTICA Shephard.

Lacinularia elliptica Shephard, Victorian Natural., vol. 14, 1897, p. 84, fig.

LACINULARIA ELONGATA Shephard.

Lacinularia elongata Shephard, Victorian Natural., vol. 13, 1896, p. 22, fig.

LACINULARIA FLOSCULOSA (Müller).

Hydra socialis Linnæus, part, Syst. Nat., ed. 10, 1758, p. 817.
Hydra stentoria Linnæus, part, Syst. Nat., ed. 10, 1758, p. 817.
Brachionus socialis Pallas, Elench. Zooph., 1766, p. 96.
Vorticella flosculosa Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 113.
Linza flosculosa Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 313.

Lacinularia flosculosa SCHWEIGGER, Handb. Naturg., 1820, p. 408.
Stentorina biloba BORY DE ST. VINCENT, part, Class. Anim. Micr., 1826, p. 67.
Stentorina rœselii BORY DE ST. VINCENT, part, Class. Anim. Micr., 1826, p. 67.
Megalotrocha socialis BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 76. Type (monotype) of genus *Megalotrocha* Bory de St. Vincent, 1826= *Vorticella flosculosa* renamed.
Lacinularia socialis EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 45.
Lacinularia fluviatilis CARUS, Erläut.-Tafeln z. vergleich. Anat., Heft 3, 1831, p. 7, pl. 1, fig. 1–9.

Two quite closely related animals, for which Ehrenberg in his Infusionsthierchen (1838) used the names *Lacinularia socialis* and *Megalotrocha alboflavicans*, have been confused since the tenth edition of Linnæus's Systema naturæ (1758). They were described by Rösel in vol. 3 of his Insecten-Belustigung, published about 1755. He considered them one species, for which he used the name "Der gesellige keulenförmige Afterpolyp," and gave a lengthy description of it, pp. 585–595, with figures on plates 94–96. Plate 94, figures 1–6, is Ehrenberg's *Lacinularia socialis;* plate 94, figures 7 and 8, is a *Stentor* of some sort; plate 95, figures 1–5, may be either *Lacinularia* or *Megalotrocha;* plate 96, figures 1–4, is easily recognizable as Ehrenberg's *Megalotrocha alboflavicans*, having the eggs attached to the body in a cluster. Linnæus followed Rösel, probably without having seen the animals himself, citing under *Hydra socialis:* Rösel, Ins., vol. 3, p. 584, plate 94, figure 4; plates 95, 96, and under *Hydra stentoria:* Rösel, Ins., vol. 3, p. 594, plate 94, figures 5, 6, 7, 8. It will be seen from this that *Hydra socialis* is *Lacinularia* + *Megalotrocha,* and *Hydra stentoria* is *Lacinularia* + *Stentor.* Pallas's description is quite evidently from *Lacinularia socialis* of Ehrenberg, but he did not divide the species nomenclatorially. Müller, in Verm. Terr. Fluv. (1773), used two names, *Vorticella socialis* and *Vorticella flosculosa.* From the descriptions and figures in his Animalcula infusoria (1786) it is seen that *Vorticella socialis* is the egg-carrying species, Ehrenberg's *Megalotrocha alboflavicans*, and *Vorticella flosculosa* the more slender-footed, jelly-encased form, Ehrenberg's *Lacinularia socialis.* Consequently, *Lacinularia* must take the specific name *flosculosa* (Müller), and the second species becomes *socialis* (Linnæus) taking the generic name *Sinantherina* Bory de St. Vincent. This has page precedence over *Megalotrocha*, the principal reason for preferring the former being, however, that if *Megalotrocha* had been accepted, with the type (monotype) *Vorticella flosculosa* Müller (this being given by Bory de St. Vincent as synonym for his *Megalotrocha socialis*) we would have been forced to use the name *Megalotrocha flosculosa* (Müller) for Ehrenberg's *Lacinularia socialis* and *Lacinularia socialis* (Linnæus) for *Megalotrocha alboflavicans* of Ehrenberg, thus completely reversing the meaning of the combination *Lacinularia socialis.*

LACINULARIA ISMAILOVIENSIS (Poggenpol).

Strophosphæra ismailoviensis POGGENPOL, Izv. Obshch. Lūb. Ĩestestv., Moskva, vol. 10, 1872, p. 9, pl. 1, figs. 1–10. Type (monotype) of genus *Strophosphæra* Poggenpol, 1872.

Lacinularia natans WESTERN, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1891, p. 254, pl. 17, fig. 1.

Lacinularia ismailoviensis HLAVA, Vířníci Čestí, Arch. Přír. Prozk. Čech, vol. 13, pt. 2, 1904, p. 43.

LACINULARIA MEGALOTROCHA Thorpe.

Lacinularia megalotrocha THORPE, Journ. Royal Micr. Soc., 1893, p. 149, pl. 2, fig. 3.

LACINULARIA PEDUNCULATA Hudson.

Lacinularia pedunculata HUDSON, Hudson and Gosse, Rotifera, Suppl., 1889, p. 7.

LACINULARIA RACEMOVATA Thorpe.

Lacinularia racemovata THORPE, Journ. Royal Micr. Soc., 1893, p. 150, pl. 3, fig. 7.

LACINULARIA RETICULATA Anderson and Shephard.

Lacinularia reticulata ANDERSON and SHEPHARD, Proc. Royal Soc. Victoria, n. ser., vol. 4, 1892, p. 73, pl. 13, fig. 2.

LACINULARIA STRIOLATA Shephard.

Lacinularia striolata SHEPHARD, Proc. Royal Soc. Victoria, n. ser., vol. 12, 1899, p. 20, pls. 3–5, figs. 1–23.

LARELLA Ehrenberg.

Larella EHRENBERG, only species *Larella piscis*, Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1840, p. 218; probably to *Gastrotricha*.

Genus LECANE Nitzsch.

Lecane NITZSCH, Enc. Wiss. u. Künste, sect. 1, vol. 16, 1827, p. 68=*Cathypna* Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 94.

Type (by present designation).—*Lecane luna* (Müller)=*Cercaria luna* Müller.

LECANE AGILIS (Bryce).

Distyla agilis BRYCE, Sci. Gossip, vol. 28, 1892, p. 273, text fig.

LECANE BRACHYDACTYLA (Stenroos).

Cathypna brachydactyla STENROOS, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 160, pl. 2, fig. 20.

Cathypna luna brachydactyla SACHSE, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 172.

LECANE BRANCHICOLA (Piovanelli).

Distyla branchicola PIOVANELLI, Mon. Zool. Italiano, vol. 14, 1903, p. 348.

LECANE CARINATA (Jakubski).

Distyla carinata JAKUBSKI, Zool. Anz., vol. 39, 1912, p. 542, text fig.

LECANE CLARA (Bryce).

Distyla clara BRYCE, Sci. Gossip, vol. 28, 1892, p. 271, text fig.

LECANE DEPRESSA (Bryce).

Distyla depressa Bryce, Sci. Gossip, vol. 27, 1891, p. 205, text fig.

LECANE FLEXILIS (Gosse).

Distyla flexilis Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 97, pl. 24, fig. 7.
? *Distyla lipara* Gosse, Journ. Royal Micr. Soc., 1887, p. 867, pl. 15, fig. 16.
Cathypna flexilis Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 159, pl. 2, fig. 19.

LECANE GISSENSIS (Eckstein).

Distyla gissensis Eckstein, Zeitschr. Wiss. Zool., vol. 39, 1883, p. 383, pl. 27, fig. 51.
Distyla aculeata Jakubski, Zool. Anz., vol. 39, 1912, p. 542, text fig.

LECANE ICHTHYOURA (Anderson and Shephard).

Distyla ichthyoura Anderson and Shephard, Proc. Royal Soc. Victoria, n. ser., vol. 4, 1892, p. 78, pl. 12, fig. 5.
Cathypna appendiculata Levander, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 50, pl. 3, fig. 30.

LECANE INERMIS (Bryce).

Distyla inermis Bryce, Sci. Gossip, vol. 28, 1892, p. 274, text fig.

LECANE LEONTINA (Turner).

Cathypna leontina Turner, Bull. Denison Univ., vol. 6, 1892, p. 61, pl. 1, fig. 12.
Cathypna scutaria Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 19, 1897, p. 631, pl. 14, fig. 7.
Cathypna macrodactyla Daday, Math. Term. Ért., vol. 16, 1898, p. 92.
? *Cathypna leontina bisinuata* Daday, Zoologica, Heft 44, 1905, p. 109, pl. 6, fig. 18.

LECANE LIGONA (Dunlop).

Cathypna ligona Dunlop, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1901, p. 29, pl. 2, figs. 4–6.

LECANE LUDWIGII (Eckstein).

Distyla ludwigii Eckstein, Zeitschr. Wiss. Zool., vol. 39, 1883, p. 393, pl. 26, fig. 37.
Diplax ornata Daday, Math. Term. Ért., vol. 15, 1897, p. 135, text fig.
Distyla oxycauda Stenroos, Acta Soc. Fanua Flora Fennica, vol. 17, No. 1, 1898, p. 162, pl. 2, figs. 23–25.

LECANE LUNA (Müller).

Cercaria luna Müller, Zool. Danicæ Prodr., 1776, p. 280.
Furcocerca luna Lamarck, Hist. Nat. Anim. sans Vert., vol. 1, 1815, p. 448.
Trichocerca luna Bory de St. Vincent, Class. Anim. Micr., 1826, p. 42.
Lecane luna Nitzsch, Enc. Wiss. u. Künste, sect. 1, vol. 16, 1827, p. 68.
? *Furcularia jobloti* Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 425.
Brachionus luna Blainville, Dict. Sci. Nat., vol. 60, 1830, p. 148.
Euchlanis luna Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 131.
Cathypna luna Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 94, pl. 24, fig. 4. Type (by present designation) of genus *Cathypna* Gosse, 1886.
Cathypna latifrons Gosse, Journ. Royal Micr. Soc., 1887, p. 362, pl. 8, fig. 3.

LECANE MUSICOLA (Bryce).

Distyla musicola Bryce, Sci. Gossip, vol. 27, 1891, p. 206, text fig.

LECANE OBLONGA (Runnström).

Distyla oblonga Runnström, Zool. Anz., vol. 34, 1909, p. 272, text fig.

LECANE OHIOENSIS (Herrick).

Distyla ohioensis HERRICK, Bull. Denison Univ., vol. 1, 1885, p. 54, fig. 1 (on page preceding index).
Cathypna ohioensis TURNER, Bull. Denison Univ., vol. 6, 1892, p. 61.
Distyla appendiculata DADAY, Dritte Asiatische Forschungsr. Graf. Zichy, vol. 2, 1901, p. 456, pl. 24, figs. 10, 11.

LECANE PLŒNENSIS (Voigt).

Distyla plœnensis VOIGT, Zool. Anz., vol. 25, 1902, p. 679.

LECANE RUSTICOLA (Gosse).

? *Euchlanis emarginata* EICHWALD, Bull. Soc. Imp. Natural. Moscou, vol. 20, pt. 2, 1847, p. 348, pl. 9, fig. 7.
Cathypna rusticola GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 95, pl. 24, fig. 6.
? *Cathypna amban* STEWART, Rec. Indian Mus., Calcutta, vol. 2, 1908, p. 320, text fig.

LECANE SIGNIFERA (Jennings).

Distyla signifera JENNINGS, Bull. Michigan Fish. Comm., No. 6, 1896, p. 92, figs. 1, 2.

LECANE SPENCERI (Shephard).

Cathypna spenceri SHEPHARD, Victorian Natural., vol. 9, 1892, p. 15.

LECANE SPINIFERA (Western).

Distyla spinifera WESTERN, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 427, pl. 21, figs. 1–4.
Wolga spinifera SKORIKOV, Jahrb. Biol. Wolga-Stat., vol. 1, 1903, p. 37. Type (monotype) of genus *Wolga* Skorikov, 1903.

LECANE STOKESII (Pell).

Cathypna stokesii PELL, The Microscope, vol. 10, 1890, p. 144, text fig.
Distyla stokesii JENNINGS, Bull. U. S. Fish Comm., vol. 19 (for 1899), 1900, p. 92, pl. 20, fig. 31.

LECANE SULCATA (Gosse).

Cathypna sulcata GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 96, pl. 24, fig. 5.

LECANE UNGULATA (Gosse).

Cathypna ungulata GOSSE, Journ. Royal Micr. Soc., 1887, p. 361, pl. 8, fig. 1.
Cathypna glandulosa STOKES, Ann. Mag. Nat. Hist., ser. 6, vol. 19, 1897, p. 632, pl. 14, figs. 8–10.
Cathypna magna STENROOS, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 161, pl. 2, fig. 21.
Cathypna magna tenuior STENROOS, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 161, pl. 2, fig. 22.
Cathypna ungulata magna SACHSE, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 173.

Doubtful or insufficiently described species:

Cathypna affinis LEVANDER.
Cathypna affinis LEVANDER, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 50, pl. 3, fig. 31.
Distyla affinis IROSO, Mon. Zool. Italiano, vol. 21, 1910, p. 302.
Cathypna biloba DADAY, Math. Term. Ért., vol. 23, 1905, p. 330.
Cathypna diomis GOSSE, Journ. Royal Micr. Soc., 1887, p. 362, pl. 8, fig. 2.
Cathypna gossei LORD, Sci. Gossip, vol. 26, 1890, p. 202, text fig.
Cathypna hudsoni LORD, Sci. Gossip, vol. 26, 1890, p. 202, text fig.

Cathypna incisa Daday, Math. Term. Ért., vol. 23, 1905, p. 330.
Distyla hornemanni (Ehrenberg).
Euchlanis hornemanni Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, pp. 206, 220.
Distyla hornemanni Hudson and Gosse, Rotifera, Suppl., 1889, p. 42, pl. 33, fig. 37.
Distyla minnesotensis Herrick, Bull. Denison Univ., vol. 1, 1885, p. 53, pl. 10, fig. 8.
Distyla striata Gosse, Journ. Royal Micr. Soc., 1887, p. 5, pl. 2, fig. 17.

LEIODINA Bory de St. Vincent.

Leiodina Bory de St. Vincent, Class. Anim. Micr., 1826, p. 44=*Crumena* Nitzsch, Enc. Wiss. u. Künste, sect. 1, vol. 16, 1827, p. 68.
Type (by original designation).—*Leiodina crumena* (Müller)=*Cercaria crumena* Müller; unrecognizable.

Leiodina crumena (Müller).
Cercaria crumena Müller, Anim. Infus., 1786, p. 129, pl. 20, figs. 4–6.
Furcocerca crumena Lamarck, Hist. Nat. Anim. sans Vert., vol. 1, 1815, p. 447.
Leiodina crumena Bory de St. Vincent, Class. Anim. Micr., 1826, p. 44.
Crumena crumena Nitzsch, Enc. Wiss. u. Künste, sect. 1, vol. 16, 1827, p. 68. Type (monotype) of genus *Crumena* Nitzsch, 1827.
Furcularia crumena Blainville, Dict. Sci. Nat., vol. 60, 1830, p. 151.
Notommata crumena Ehrenberg, Isis (Oken), vol. 26, 1833, col. 243.

Genus LEPADELLA Bory de St. Vincent.

Lepadella Bory de St. Vincent, Class. Anim. Micr., 1826, p. 86.
Type (by present designation).—*Lepadella patella* (Müller)=*Brachionus patella* Müller.

LEPADELLA ACUMINATA (Ehrenberg).

Metopidia acuminata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 210.
Lepadella acuminata Dujardin, Hist. Nat. Zooph., 1841, p. 633.

LEPADELLA CRISTATA (Rousselet).

Colurus cristatus Rousselet, Journ. Royal Micr. Soc., 1893, p. 446, pl. 7, fig. 2.
Metopidia cristata Voronkov, Trudy Otd. Ikht. Obshch. Akklim, vol. 6, 1907, p. 112, pl. 7, figs. 39–42.
Metopidia mucronata Daday, Math. Term. Ért., vol. 26, 1908, p. 30; not *Lepadella mucronata* Schmarda.
Metopidia semicarinata Lucks, Ber. Westpreuss. Botan.-Zool. Ver., vol. 31, 1909, p. 141.
Metopidia semicarinata tripteris Lucks, Ber. Westpreuss. Botan.-Zool. Ver., vol. 31, 1909, p. 141; not *Metopidia triptera* (Ehrenberg), 1832.

LEPADELLA EHRENBERGII (Perty).

Notogonia ehrenbergii Perty, Mitth. Nat. Ges. Bern, 1850, p. 20. Type (monotype) of genus *Notogonia* Perty, 1850; not *Notogonia* Costa, 1868, Hymenoptera.
Metopidia angulata Anderson, Journ. Asiatic Soc. Bengal, vol. 58, 1889, pt. 2, p. 356, pl. 21, fig. 10.
Metopidia notogonia Ternetz, Rot. Umg. Basels, 1892, pp. 19, 34=*Notogonia ehrenbergii* renamed.
Metopidia ehrenbergii Jennings, Bull. Michigan Fish Comm., No. 3, 1894, p. 26.

LEPADELLA LATUSINUS (Hilgendorf).

Metopidia solidus latusinus Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 131, pl. 11, fig. 15d.
Metopidia latusinus Murray, Journ. Royal Micr. Soc., 1911, p. 581, pl. 17, fig. 11.

LEPADELLA OBLONGA (Ehrenberg).

Squamella oblonga EHRENBERG, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 220.
Lepadella oblonga DUJARDIN, Hist. Nat. Zooph., 1841, p. 633.
Metopidia oblonga HUDSON and GOSSE, Rotifera, Suppl., 1889, p. 47, pl. 34, fig. 5.
Metopidia elliptica TURNER, Bull. Denison Univ., vol. 6, 1892, p. 62, pl. 1, fig. 8.
Metopidia dentata TURNER, Bull. Denison Univ., vol. 6, 1892, p. 63, pl. 1, fig. 9.
Metopidia lepadella collaris LEVANDER, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 54, pl. 3, fig. 39.
Metopidia collaris STOKES, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 19, pl. 7, figs. 3, 4.
Metopidia collaris similis STOKES, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 20, pl. 7, fig. 5.
Metopidia dactyliseta STENROOS, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 165, pl. 3, fig. 1.
Metopidia similis LUCKS, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 191, text fig.

LEPADELLA OVALIS (Müller).

Brachionus ovalis MÜLLER, Anim. Infus., 1786, p. 345, pl. 49, figs. 1–3.
Mytilina lepidura BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 87=*Brachionus ovalis* renamed.
Lepadella ovalis EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 45, pl. 7, fig. 4.
Metopidia lepadella EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 136.
Lepadella rotundata DUJARDIN, part, Hist. Nat. Zooph., 1841, p. 633.
Metopidia solidus GOSSE, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 201.
Metopidia ovalis HUDSON and GOSSE, Rotifera, Suppl., 1889, p. 46, pl. 34, fig. 2.
Metopidia torquata ANDERSON, Journ. Asiatic Soc. Bengal, vol. 58, 1889, pt. 2, p. 356, pl. 21, fig. 9.
Metopidia affinis BERGENDAL, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 122, pl. 6, fig. 42.

LEPADELLA PARVULA (Bryce).

Metopidia parvula BRYCE, Journ. Quekett Micr. Club, ser. 2, vol 5, 1893, p. 284.

LEPADELLA PATELLA (Müller).

Brachionus patella MÜLLER, Anim. Infus., 1786, p. 341, pl. 48, figs. 15–19.
Lepadella patella BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 86.
Lepadella emarginata EHRENBERG, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, Phytozoa, fol. d (third page), pl. 2, Sinaitica, fig. 19.
Squamella bractea EHRENBERG, Infusionsth., 1838, p. 480, pl. 59, fig. 16; not *Squamella bractea* (Müller).
Lepadella rotundata DUJARDIN, part, Hist. Nat. Zooph., 1841, p. 633.
Metopidia bractea HUDSON and GOSSE, Rotifera, 1886, vol. 2, p. 109.
Metopidia emarginata HUDSON and GOSSE, Rotifera, Suppl., 1889, p. 46, pl. 34, fig. 6.

LEPADELLA PTERYGOIDA (Dunlop).

Metopidia pterygoida DUNLOP, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1897, p. 325, pl. 17.

LEPADELLA QUADRICARINATA (Stenroos).

Metopidia quadricarinata STENROOS, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 165, pl. 3, fig. 2.

LEPADELLA QUINQUECOSTATA (Lucks).

Metopidia quinquecostata LUCKS, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 189, text fig.

LEPADELLA RHOMBOIDES (Gosse).

Metopidia rhomboides Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 108. pl. 25, fig. 10.

LEPADELLA RHOMBOIDULA (Bryce).

Metopidia rhomboidula Bryce, Sci. Goss., vol. 24, 1890, p. 76, figs.

LEPADELLA ROTTENBURGI (Lucks).

Metopidia rottenburgi Lucks, Rotatorienfauna Westpreussens, 1912, p. 127, text fig.

LEPADELLA SALPINA Ehrenberg.

Lepadella salpina Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 209.
Lophocharis salpina Ehrenberg, Infusionsth., 1838, p. 458. Type (monotype) of genus *Lophocharis* Ehrenberg, 1838.
Metopidia oxysternon Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 201.
Metopidia oxysternum Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 107, pl. 25, fig. 8.
Metopidia salpina Bilfinger, Jahresh. Naturk. Württemberg, vol. 50, 1894, p. 59.
Oxysterna oxysternum Iroso, Mon. Zool. Italiano, vol. 21, 1910, p. 303. Type (by original designation) of genus *Oxysterna* Iroso, 1910.
Oxysterna major Iroso, Mon. Zool. Italiano, vol. 21, 1910, p. 304..

LEPADELLA TRIPTERA Ehrenberg.

Lepadella triptera Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 71.
Metopidia triptera Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 72. Type (monotype) of genus *Metopidia* Ehrenberg, 1832.

LEPADELLA VITREA (Shephard).

Metopidia ovalis Anderson and Shephard, Proc. Royal Soc. Victoria, n. ser., vol. 4, 1892, p. 78, pl. 12, fig. 6; not *Metopidia ovalis* (Müller).
Metopidia vitrea Shephard, Proc. Royal Soc. Victoria, n. ser., vol. 24, 1911, p. 55.

Doubtful or insufficiently described species:

Lepadella mucronata Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 57, pl. 13, fig. 120.
Lepadella setifera Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 58, pl. 13, fig. 121.
Lophocharis rostrata Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 22, 1849, pt. 1, p. 536, pl. 4, fig. 27.
Lophocharis triangulum Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 17, 1844, pt. 2, p. 680.
Metopidia pygmæa Gosse, Journ. Royal Micr. Soc., 1887, p. 867, pl. 15, fig. 17.

Genus LIMNIAS Schrank.

Limnias Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 311.
Type (monotype).—*Limnias ceratophylli* Schrank.

LIMNIAS CERATOPHYLLI Schrank.

Limnias ceratophylli Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 311.
Rotifer confervicola Dutrochet, Ann. Mus. Hist. Nat., vol. 19, 1812, p. 375, pl. 18, fig. 11.
Tubicolaria confervicola Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 53.

Melicerta confervicola SCHWEIGGER, Handb. Naturg., 1820, p. 409.
Melicerta biloba EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 126.
Melicerta ceratophylli GOSSE, Pop. Sci. Rev., vol. 1, 1862, p. 481, pl. 26.
Limnias socialis LEIDY, Proc. Acad. Nat. Sci., Philadelphia, 1874, p. 140.
Limnias sphagnicola ZACHARIAS, Zeitschr. Wiss. Zool., vol. 43, 1886, p. 255.
Limnias ceratophylli socialis COLLIN, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 54.
Limnias ceratophylli sphagnicola COLLIN, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 54.

LIMNIAS CORNUELLA Rousselet.

Limnias cornuella Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 3, 1889, p. 337, pl. 24, figs. 11–14.

LIMNIAS MELICERTA Weisse.

Limnias melicerta WEISSE, Bull. Phys.-Math. Acad. Sci., St. Petersburg, vol. 6, 1848, p. 357, pl., figs. 1–5.
Limnias corniculata EHRENBERG, Monatsber. Akad. Wiss. Berlin, 1853, p. 187.
Cephalosiphon limnias EHRENBERG, Monatsber. Akad. Wiss. Berlin, 1853, pp. 187, 193. Type (monotype) of genus *Cephalosiphon* Ehrenberg, 1853.
Cephalosiphon melicerta EHRENBERG, Monatsber. Akad. Wiss. Berlin, 1853, p. 529.
Limnias annulatus BAILEY, Smiths. Contr. Knowl., vol. 7, 1855, No. 3, p. 4, fig. 28.
Limnias doliolum SCHOCH, Mikr. Thiere Süssw.-Aquar., 1868, pt. 2, p. 19, pl. 2, fig. 6.
Melicerta cubitti CUBITT, Month. Micr. Journ., vol. 6, 1871, pl. 98.
Melicerta annulatus CUBITT, Month. Micr. Journ., vol. 6, 1871, p. 167.

LIMNIAS MELICERTA GRANULOSUS (Weber).

Limnias granulosus WEBER, Arch. Biol., Liège, vol. 8, 1888, p. 653, pl. 27, figs. 1–4.
Limnias annulatus granulosus WEBER, Rev. Suisse Zool., vol. 5, 1898, p. 292, pl. 11, fig. 12.

LIMNIAS MYRIOPHYLLI (Tatem).

Limnioides myriophylli TATEM, Journ. Quekett Micr. Club, vol. 1, 1868, p. 124, pl. 6, figs. 3–5. Type (monotype) of genus *Limnioides* Tatem, 1868.
Limnias myriophylli WESTERN, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1891, p. 321, pl. 21, fig. 2.

LIMNIAS NYMPHÆA Stenroos.

Limnias nymphæa STENROOS, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 101, pl. 1, figs. 1–3.

LIMNIAS SHIAWASSEENSIS Kellicott.

Limnias shiawasseensis KELLICOTT, Proc. Amer. Soc. Micr., vol. 10, 1888, p. 86, fig. 1.

LINZA Schrank.

Linza SCHRANK, Briefe an Nau, 1802, p. 91.
Type (monotype).—*Linza pruniformis*=(according to Ehrenberg) *Vorticella versatilis* Müller; to *Protozoa*.

LYCOCEPHALUS Corda.

Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1841, p. 374:

> Hr. Corda . . . hat dann 1838 wieder ein Räderthierchen unter dem Namen *Lycocephalus* als neue Thiergattung aufgestellt und gezeichnet, welches wohl nur *Monura dulcis* war, deren doppelter Augenpunkt durch die Seitenlage sich deckte und für einfach gehalten wurde.

In spite of a rather careful search, it has not been possible to locate the original description. Judging from Ehrenberg, it probably would not prove of any great value.

Genus MACROCHÆTUS Perty.

Macrochætus Perty, Mitth. Nat. Ges. Bern, 1850, p. 22=*Polychætus* Perty, Zur Kenntn. kleinst. Lebensf., 1852, p. 45.
Type (monotype).—*Macrochætus subquadratus* Perty.

MACROCHÆTUS COLLINSII (Gosse).

Dinocharis collinsii Gosse, Int. Obs., vol. 10, 1867, p. 269, fig.
Polychætus spinulosus Archer, Quart. Journ. Micr. Sci., vol. 8, 1868, p. 72.
Polychætus collinsii Ternetz, Rot. Umg. Basels, 1892, pp. 15, 31, pl. 1, fig. 7.

MACROCHÆTUS SERICA (Thorpe).

Dinocharis serica Thorpe, Journ. Royal Micr. Soc., 1893, p. 152, pl. 2, fig. 4.
Polychætus serica Jennings, Bull. U. S. Fish Comm., vol. 19 (for 1899), 1900, p. 89.

MACROCHÆTUS SUBQUADRATUS Perty.

Macrochætus subquadratus Perty, Mitth. Nat. Ges. Bern, 1850, p. 22.
Polychætus subquadratus Perty, Zur Kenntn. kleinst. Lebensf., 1852, p. 45, pl. 1, fig. 6. Type (monotype) of genus *Polychætus* Perty, 1852.
Dinocharis subquadratus rossica Michailoff, Trav. Soc. Nat. St. Petersburg, vol. 31, 1900, p. 153.
Dinocharis subquadratus Daday, Zoologica, Heft 44, 1905, p. 103, pl. 7, fig. 18.

Genus MACROTRACHELA Milne.

Macrotrachela Milne, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 134.
Type (by present designation).—*Macrotrachela aculeata* Milne.

MACROTRACHELA ACULEATA Milne.

Macrotrachela aculeata Milne, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 138, pl. 1, fig. 6.
Callidina aculeata Hudson and Gosse, Rotifera, Suppl., 1889, p. 11, pl. 32, fig. 11.

MACROTRACHELA ALLANI (Murray).

Callidina allani Murray, Journ. Royal Micr. Soc., 1911, p. 6, pl. 1, fig. 2.

MACROTRACHELA ANGUSTA (Bryce).

Callidina angusta Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 451, pl. 24, fig. 6.

MACROTRACHELA ARMILLATA (Murray).

Callidina armillata Murray, Journ. Royal Micr. Soc., 1911, p. 168, pl. 4, fig. 2.

MACROTRACHELA ASPERULA (Murray).

Callidina asperula Murray, Journ. Royal Micr. Soc., 1911, p. 289, pl. 8, fig. 11.

MACROTRACHELA BRANCHICOLA (Nemec).

Callidina branchicola Nemec, Sitzungsber. Böhm. Ges. Wiss. Prag, 1895, No. 32, p. 9, figs. 26–30.

MACROTRACHELA BULLATA (Murray).

Callidina habita bullata MURRAY, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 177, pl. 3, fig. 10.
Callidina bullata MURRAY, Ann. Transvaal Mus., vol. 3, 1911, p. 6, pl. 2, fig. 10.

MACROTRACHELA CANADENSIS (Murray).

Callidina canadensis MURRAY, Journ. Royal Micr. Soc., 1911, p. 289, pl. 6, fig. 4.

MACROTRACHELA CANCROPHILA (Piovanelli).

Callidina cancrophila PIOVANELLI, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1903, p. 521.

MACROTRACHELA CONCINNA (Bryce).

Callidina concinna BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1912, p. 368, pl. 12, fig. 1.

MACROTRACHELA CRUCICORNIS (Murray).

Callidina crucicornis MURRAY, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 378, pl. 5, fig. 8.

MACROTRACHELA DECORA (Bryce).

Callidina decora BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1912, p. 369, pl. 12, fig. 3.

MACROTRACHELA EHRENBERGII (Janson).

Callidina ehrenbergii JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 61, pl. 3, figs. 43–46.

MACROTRACHELA FORMOSA (Murray).

Callidina formosa MURRAY, Journ. Royal Micr. Soc., 1906, p. 641, pl. 18, fig. 3.

MACROTRACHELA FUSCA (Bryce).

Callidina fusca BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 448, pl. 23, fig. 2.

MACROTRACHELA GUNNINGI (Murray).

Callidina gunningi MURRAY, Ann. Transvaal Mus., vol. 3, 1911, p. 8, pl. 2, fig. 11.

MACROTRACHELA HABITA (Bryce).

Callidina habita BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 451, pl. 24, fig. 5.

MACROTRACHELA HEWITTI (Murray).

Callidina hewitti MURRAY, Ann. Transvaal Mus., vol. 3, 1911, p. 9, pl. 2, fig. 12.

MACROTRACHELA LEPIDA (Murray).

Callidina lepida MURRAY, Journ. Royal Micr. Soc., 1911, p. 168, pl. 4, fig. 3.

MACROTRACHELA LONGISTYLA (Murray).

Callidina longistyla MURRAY, Journ. Royal Micr. Soc., 1911, p. 169, pl. 4, fig. 4.

MACROTRACHELA MICROCORNIS (Murray).

Callidina microcornis MURRAY, Journ. Royal Micr. Soc., 1911, p, 577, pl. 16, fig. 4.

MACROTRACHELA MIRABILIS (Murray).

Callidina mirabilis MURRAY, Journ. Royal Micr. Soc., 1911, p. 170, pl. 5, fig. 8.

MACROTRACHELA MULTISPINOSA Thompson.

Macrotrachela multispinosa THOMPSON, Sci. Goss., vol. 28, 1892, p. 57, fig.
Callidina multispinosa JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 67, pl. 4, fig. 58.

MACROTRACHELA MULTISPINOSA BREVISPINOSA (Murray).

Callidina multispinosa brevispinosa MURRAY, Journ. Royal Micr. Soc., 1908, p. 666, pl. 15, figs. 1–4.

MACROTRACHELA MULTISPINOSA CRASSISPINOSA (Murray).

Callidina multispinosa crassispinosa MURRAY, Amer. Natural., vol. 41, 1907, p. 99, fig. 4.

MACROTRACHELA MULTISPINOSA ZICKENDRAHTI (Richters).

Callidina zickendrahti RICHTERS, Ber. Senckenbergischen Nat. Ges., 1902, p. 24, pl. 2, fig. 6.
Callidina multispinosa zickendrahti BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 75.

MACROTRACHELA MURICATA (Murray).

Callidina muricata MURRAY, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 377, pl. 5, fig. 7.

MACROTRACHELA MUSCULOSA Milne.

Macrotrachela musculosa MILNE, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 138, pl. 2, fig. 7.
Callidina musculosa JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 64, pl. 4, figs. 53, 54.

MACROTRACHELA NANA (Bryce).

Callidina nana BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1912, p. 369, pl. 12, fig. 3.

MACROTRACHELA NATANS (Murray).

Callidina natans MURRAY, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 186, pl. 2, fig. 8.

MACROTRACHELA PACIFICA (Murray).

Callidina pacifica MURRAY, Journ. Royal Micr. Soc., 1911, p. 430, pl. 14, fig. 3.

MACROTRACHELA PAPILLOSA Thompson.

Macrotrachela papillosa THOMPSON, Sci. Goss., vol. 28, 1892, p. 60, fig.
Callidina papillosa JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 66, pl. 4, figs. 56, 57.

MACROTRACHELA PINNIGERA (Murray).

Callidina pinniger MURRAY, Journ. Royal Micr. Soc., 1908, p. 668, pl. 15, figs. 5–7.

MACROTRACHELA PLICATA (Bryce).

Callidina plicata BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1892, p. 21, pl. 2, fig. 1.

MACROTRACHELA PLICATA HIRUNDINELLA (Murray).

Callidina plicata hirundinella MURRAY, Trans. Royal Soc. Edinburgh, vol. 46, 1908, p. 197, pl. 2, figs. 16–18.

MACROTRACHELA PLICATULA (Murray).

Callidina plicatula MURRAY, Ann. Transvaal Mus., vol. 3, 1911, p. 9, pl. 1, fig. 7.

MACROTRACHELA PUNCTATA (Murray).

Callidina punctata MURRAY, Journ. Royal Micr. Soc., 1911, p. 5, pl. 2, fig. 11.

MACROTRACHELA QUADRICORNIFERA Milne.

Macrotrachela quadricornifera MILNE, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 139, pl. 1, fig. 4.
Callidina quadricornifera HUDSON and GOSSE, Rotifera, Suppl., 1889, p. 10.

MACROTRACHELA SERRULATA (Murray).

Callidina serrulata MURRAY, Journ. Royal Micr. Soc., 1911, p. 170, pl. 5, fig. 7.

MACROTRACHELA SPECIOSA (Murray).

Callidina speciosa MURRAY, Amer. Natural., vol. 41, 1907, p. 100, figs. 8–10.

MACROTRACHELA VESICULARIS (Murray).

Callidina vesicularis MURRAY, Journ. Quekett Micr. Club, ser. 2, vol. 9, 1906, p. 259, pl. 18.

Insufficiently described:

Macrotrachela bidens MILNE, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 138.

MALACOSTOMUM Werneck.

Malacostomum WERNECK, Monatsber. Akad. Wiss. Berlin, 1841, p. 377; no species named.

Genus MICROCODON Ehrenberg.

Microcodon EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 45.
Type (monotype).—*Microcodon clavus* Ehrenberg.

MICROCODON CLAVUS Ehrenberg.

Microcodon clavus EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 45.

MICRODINA Murray.

Microdina MURRAY, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 371; not *Microdina* Kirby, 1903, Orthoptera.

Genus MIKROCODIDES Bergendal.

Mikrocodides BERGENDAL, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 34.
Type (monotype).—*Mikrocodides chlæna* (Gosse) as *dubius* Bergendal=*Stephanops chlæna* Gosse.

MIKROCODIDES CHLÆNA (Gosse).

Stephanops chlæna GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 76, pl. 21, fig. 9.
Rhinops orbiculodiscus THORPE, Journ. Royal Micr. Soc., 1891, p. 304, pl. 7, fig. 4.
Mikrocodides dubius BERGENDAL, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 34, pl. 1, figs. 8, 10, 11.
Microcodides orbiculodiscus JENNINGS, Bull. Michigan Fish Comm., No. 3, 1894, p. 8.
Microcodides chlæna WEBER, Rev. Suisse Zool., vol. 5, 1898, p. 369, pl. 16, figs. 5, 6.

MIKROCODIDES DOLIARIS (Rousselet).

Microcodides doliaris ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1895, p. 120, pl. 7, fig. 4.

MIKROCODIDES ROBUSTUS (Glasscott).

Microcodon robustus Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 40, pl. 3, fig. 2.
Microcodides robustus Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1895, p. 121, pl. 6, fig. 1.
Microcodides abbreviatus Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 113, pl. 1, fig. 20.

Genus MNIOBIA Bryce.

Mniobia Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.
Type (by designation of Woodcock, Int. Cat. Sci. Lit., vol. 10, 1911, Zoology, VI, p. 45).—*Mniobia magna* (Plate)=*Callidina magna* Plate.

MNIOBIA ARMATA (Murray).

Callidina armata Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 379, pl. 6, fig. 10.
Mniobia armata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.

MNIOBIA CIRCINATA (Murray).

Callidina circinata Murray, Trans. Royal Soc. Edinburgh, vol. 46, 1908, p. 195, pl. 1, figs. 4–10.
Mniobia circinata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.

MNIOBIA INCRASSATA (Murray).

Callidina incrassata Murray, Trans. Royal Soc. Edinburgh, vol 41, 1905, p. 379, pl. 6, fig. 9.
Mniobia incrassata Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11. 1910, p. 77.

MNIOBIA MAGNA (Plate).

Callidina magna Plate, Zeitschr. Wiss. Zool., vol. 49, 1889, p. 15, pl. 1, figs. 4–12.
Mniobia magna Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.

MNIOBIA MONTIUM Murray.

Mniobia montium Murray, Journ. Royal Micr. Soc., 1911, p. 291, pl. 8, fig. 14.

MNIOBIA OBTUSICORNIS Murray.

Mniobia obtusicornis Murray, Journ. Royal Micr. Soc., 1911, p. 291, pl. 8, fig. 13.

MNIOBIA RUSSEOLA (Zelinka).

Callidina russeola Zelinka, Zeitschr. Wiss. Zool., vol. 53, 1891, p. 2, pls. 1–4, figs. 1–72; pl. 5, figs. 108–109; pl. 6, figs. 114–115, 121–123, 126, 130.
Mniobia russeola Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.

MNIOBIA SCABROSA Murray.

Mniobia scabrosa Murray, Journ. Royal Micr. Soc., 1911, p. 9, pl. 2, fig. 10.

MNIOBIA SCARLATINA (Ehrenberg).

Callidina scarlatina Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1853, p. 529.
Mniobia scarlatina Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11. 1910, p. 77.

MNIOBIA SYMBIOTICA (Zelinka).

Callidina symbiotica Zelinka, Zeitschr. Wiss. Zool., vol. 44, 1886, p. 396, pls. 26–29.
Mniobia symbiotica Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.

MONOLABIS Ehrenberg.

Monolabis Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48.
Type (monotype).—*Monolabis conica* Ehrenberg; unrecognizable.

Monolabis conica Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48.
Monolabis gracilis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 146.

Genus MONOMMATA Bartsch.

Monommata Bartsch, Jahresh. Naturk. Württemberg, vol. 26, 1870, p. 344.
Type (by present designation).—*Monommata orbis* (Müller) as *Monommata longiseta* (Müller)=*Cercaria orbis* Müller.

MONOMMATA ORBIS (Müller).

Cercaria orbis Müller, Zool. Danicæ Prodr., 1776, p. 280.
Vorticella longiseta Müller, Anim. Infus., 1786, p. 295, pl. 42, figs. 9, 10.
? *Trichoda bicaudata* Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 87.
? *Vaginaria brachiura* Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 144.
Furcocerca orbis Lamarck, Hist. Nat. Anim. sans Vert., vol. 1, 1815, p. 448.
Furcularia longiseta Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 39.
Trichocerca orbis Bory de St. Vincent, Class. Anim. Micr., 1826, p. 42.
Lecane orbis Nitzsch, Enc. Wiss. u. Künste, sect. 1, vol. 16, 1827, p. 68.
Brachionus orbis Blainville, Dict. Sci. Nat., vol. 60, 1830, p. 149.
Trichocerca longiseta Blainville, Dict. Sci. Nat., vol. 60, 1830, p. 150.
Notommata longiseta Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46.
Notommata æqualis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 134.
Notommata longiseta inæqualis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 134.
Notommata longiseta æqualis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 134.
Scaridium longisetum Schoch, Mikr. Thiere Süssw.-Aquar., 1868, p. 30.
Monommata longiseta Bartsch, Jahresh. Naturk. Württemberg, vol. 26, 1870, p. 344.
Furcularia æqualis Hudson and Gosse, Rotifera, 1886, vol. 2, p. 46, pl. 18, fig. 15.
Monommata æqualis Voigt, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 104, text fig.

MONOMMATA ORBIS GRANDIS Tessin.

Monommata grandis Tessin, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 151, pl. 1, figs. 11, 12.
Furcularia longiseta grandis Rousselet, Journ. Quekett Micr. Club, ser. 2, vol. 6, 1895, p. 124, pl. 7, fig. 3.
Monommata longiseta grandis Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 135.
Monommata appendiculata Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 135, pl. 1, figs. 33, 34.

Genus MONOSTYLA Ehrenberg.

Monostyla Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46.
Type (monotype).—*Monostyla cornuta* (Müller)=*Trichoda cornuta* Müller.

MONOSTYLA ARCUATA Bryce.

Monostyla arcuata Bryce, Sci. Gossip, vol. 27, 1891, p. 206, text fig.

MONOSTYLA BIFURCA Bryce.

Monostyla bifurca Bryce, Sci. Gossip, vol. 28, 1892, p. 274, text fig.
Notommata monostylæformis Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 126, pl. 1, fig. 25.
Monostyla monostylæformis Iroso, Mon. Zool. Italiano, vol. 21, 1910, p. 303.

MONOSTYLA BULLA Gosse.

Monostyla bulla Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 200.
Monostyla bipes Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 23, pl. 8, figs. 11–13.
Monostyla incisa Daday, Math. Term. Ért., vol. 15, 1897, p. 136, text fig.

MONOSTYLA CLOSTEROCERCA Schmarda.

Monostyla closterocerca Schmarda, Neue Wirbell. Thiere, 1859, vol. 1, p. 59, pl. 14, fig. 125.

MONOSTYLA CORNUTA (Müller).

Trichoda cornuta Müller, Anim. Infus., 1786, p. 208, pl. 30, figs. 1–3.
Lepadella cornuta Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 9, 1826, p. 285.
Lepadella glumiformis Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 484 = *Trichoda cornuta* renamed.
Notommata cornuta Ehrenberg, Isis (Oken), vol. 23, 1830, col. 767.
Monostyla cornuta Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46.
Monostyla truncata Turner, Bull. Denison Univ., vol. 6, 1892, p. 62, pl. 1, fig. 11.
Monostyla robusta Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 22, pl. 7, figs. 9, 10.

MONOSTYLA GALEATA Bryce.

Monostyla galeata Bryce, Sci. Goss., vol. 28, 1892, p. 275, fig.

MONOSTYLA HAMATA Stokes.

Monostyla hamata Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 21, pl. 7, figs. 6–8.

MONOSTYLA LAMELLATA Daday.

Monostyla lamellata Daday, Math. Term. Ért., vol. 12, 1893, p. 40, pl. 2, figs. 1, 2.
Monostyla appendiculata Skorikov, Zool. Anz., vol. 21, 1898, p. 556, text fig.

MONOSTYLA LUNARIS (Ehrenberg).

Lepadella lunaris Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 127.
Monostyla lunaris Ehrenberg, Infusionsth., 1838, p. 460, pl. 57, fig. 6.
Monostyla quennerstedti Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 118, pl. 6, fig. 39.
Monostyla bicornis Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 164, pl. 2, fig. 26; not *Monostyla bicornis* Daday, 1897.
Monostyla stenroosi Meissner, Izv. Turkestanskago Otd. Imp. Russkago Geogr. Obshch., vol. 4, pt. 8, 1908, p. 22, pl. 1, fig. 8.

MONOSTYLA MOLLIS Gosse.

Monostyla mollis Gosse, Journ. Royal Micr. Soc., 1887, p. 363, pl. 8, fig. 5.

MONOSTYLA PYGMÆA Daday.

Monostyla parva Daday, Math. Term. Ért., vol. 15, 1897, p. 132.
Monostyla pygmæa Daday, Math. Term. Ért., vol. 15, 1897, p. 139, text fig.

MONOSTYLA QUADRIDENTATA Ehrenberg.

Monostyla quadridentata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 130.
Lepadella cornuta Schmarda, Neue Wirbell. Thiere, 1859, vol. 1, p. 58, pl. 14, fig. 122; not *Lepadella cornuta* (Müller) of Bory de St. Vincent, 1826.
Metopidia cornuta Hudson and Gosse, Rotifera, Suppl., 1889, p. 47, pl. 34, fig. 3.
Monostyla bicornis Daday, Math. Term. Ért., vol. 15, 1897, p. 139, text fig.

Doubtful or insufficiently described species:

Monostyla diophthalma Iroso, Mon. Zool. Italiano, vol. 21, 1910, p. 303.
Monostyla lordii Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 99, pl. 25, fig. 5.
Monostyla macrognatha Schmarda, Neue Wirbell. Thiere, 1859, vol. 1, p. 59, pl. 14, fig. 124.
Monostyla oöphthalma Schmarda, Neue Wirbell. Thiere, 1859, vol. 1, p. 59, pl. 14, fig. 126.
Monostyla ovata Forbes, Bull. U. S. Fish Comm., vol. 11 (for 1891), 1893, p. 256.
Monostyla pyriformis Daday, Math. Term. Ért., vol. 23, 1905, p. 330.
Monostyla tentaculata Cosmovici, Naturaliste (Paris), vol. 14, 1892, p. 70; Anal. Acad. Rom., ser. 2, vol. 28, 1906, p. 44, fig. 29; probably a *Lepadella*.

MYTILIA Gosse.

Mytilia Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 110; not *Mytilia* Gray, 1858, Reptilia. According to v. Hofsten, Zool. Bidr. Uppsala, vol. 1, 1912, pp. 187–190, all the species are synonymous with *Pleurotrocha reinhardti* (Ehrenberg).

Genus MYTILINA Bory de St. Vincent.

Mytilina Bory de St. Vincent, Class. Anim. Micr., 1826, p. 87=*Mitillina* Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 2, 1822, p. 470; no species=*Salpina* Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46; not *Mytilina* Cantraine, 1837, Mollusca.

Type (by designation of v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 54).—*Mytilina mucronata* (Müller) as *cypridina* Bory de St. Vincent=*Brachionus mucronatus* Müller.

MYTILINA BICARINATA (Perty).

Euchlanis bicarinata Perty, Mitth. Nat. Ges. Bern, 1850, p. 19.
Salpina bicarinata Dixon-Nuttall, Journ. Royal Micr. Soc., 1893, p. 630, figs. 89*a*, 90*a*.
Salpina pertyi Hood, Proc. Royal Irish Acad., ser. 3, vol. 3, 1895, p. 687.
Diplax videns longipes Voronkov, Trudy Otd. Ikht. Obshch. Aklim., vol. 6, 1907, p. 107, pl. 7, fig. 32.
Mytilina pertyi Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 160, text fig.

MYTILINA COMPRESSA (Gosse).

Diplax compressa Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 201.
? *Diplax crassipes* Lucks, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 154, text fig.

MYTILINA MACROCERA (Jennings).

Salpina macrocera Jennings, Bull. Michigan Fish Comm., No. 3, 1894, p. 22, figs. 12, 13.

MYTILINA MUCRONATA (Müller).

Brachionus mucronatus Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 134.
Brachionus dentatus Müller, Anim. Infus., 1786, p. 348, pl. 49, figs. 10, 11.
Mytilina cypridina Bory de St. Vincent, Class. Anim. Micr., 1826, p. 87=*Brachionus mucronatus* Müller renamed.

Mytilina cytherea Bory de St. Vincent, Class. Anim. Micr., 1826, p. 87=*Brachionus dentatus* Müller renamed.
Salpina mucronata Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46. Type (monotype) of genus *Salpina* Ehrenberg, 1830.
Salpina bicarinata Ehrenberg, Infusionsth., 1838, p. 471, pl. 58, fig. 9; not *Salpina bicarinata* Ehrenberg, 1832=*Mytilina ventralis brevispina* (Ehrenberg).
Brachionus tetracerus Costa, Fauna Regno Napoli, Infusori, 1838, p. 14, pl. 2, fig. 9.
Salpina affinis Herrick, Bull. Denison Univ., vol. 1, 1885, p. 52, pl. 2, fig. 4.
Salpina marina Gosse, Journ. Royal Micr. Soc., 1887, p. 6, pl. 2, fig. 19.
Mytilina mucronata v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 54.
Mytilina bicarinata Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 156, text fig.

MYTILINA MUCRONATA SPINIGERA (Ehrenberg).

Salpina spinigera Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 133.
Salpina sulcata Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 86, pl. 22, fig. 7.
Mytilina spinigera Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 160, text fig.

MYTILINA MUTICA (Perty).

Salpina mutica Perty, Mitth. Nat. Ges. Bern, 1849, p. 172.
Mytilina mutica Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 157, text fig.

MYTILINA TRIGONA (Gosse).

Diplax trigona Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 201.
? *Diplax videns* Levander, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 45, pl. 2, figs. 24, 25.
? *Diplax bisulcata* Lucks, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 153, text fig.

MYTILINA VENTRALIS (Ehrenberg).

Salpina ventralis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 133, pl. 4, fig. 7.
Salpina macracantha Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 84, pl. 22, fig. 6.
Salpina cortina Thorpe, Journ. Royal Micr. Soc., 1891, p. 305, pl. 7, fig. 6.
Salpina eustala Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 85, pl. 22, fig. 5.
Salpina similis Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 24, pl. 8, figs. 14, 15.
Salpina ceylonica Daday, Math. Term. Ért., vol. 16, 1898, p. 92.
Salpina macracantha ceylonica Daday, Term. Füz., vol. 21, Anhangsheft, 1898, p. 13, fig. 2.
Mytilina macracantha Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 157, text fig.
Mytilina macracantha ventralis Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 157, text fig.

MYTILINA VENTRALIS BREVISPINA (Ehrenberg).

Salpina brevispina Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 133.
Salpina redunca Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 133.
Salpina bicarinata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 134.
Salpina polyodonta Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 58, pl. 14, fig. 123.
Salpina shapé Stewart, Rec. Indian Mus. Calcutta, vol. 2, 1908, p. 319, fig. 4.
Mytilina brevispina v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 55.
Mytilina brevispina redunca Sachse, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 159, text fig.

Unrecognizable:

Mytilina tripos (MÜLLER).

Brachionus tripos MÜLLER, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 133.

Mytilina limnadina BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 87=*Brachionus tripos* renamed.

Insufficiently described:

Diplax unguipes LUCKS, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 154, text fig.

NOROPS Ehrenberg.

Norops EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 47, not *Norops* Wagler, 1830, Reptilia.

This name was withdrawn by Ehrenberg, Infusionsth., 1838, p. 451, and *Triophthalmus* substituted for it. Whether Wagler's name really has priority can not be decided from Ehrenberg's statement. In Isis (Oken), vol. 24, 1831, November issue, col. 1250–1254, Wagler's Natürliches System der Amphibien is reviewed, anp probably was not very old then. As far as the Rotatoria are concerned, the question is of no great importance, as Ehrenberg's *Norops dorsalis* has not been refound, and possibly would prove to be a synonym of an *Eosphora* species.

Genus NOTHOLCA Gosse.

Notholca GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 125.

Type (by present designation).—*Notholca striata* (Müller) as *scapha* Gosse= *Brachionus striatus* Müller.

NOTHOLCA BOSTONIENSIS Rousselet.

Notholca bostoniensis ROUSSELET, Journ. Quekett Micr. Club, ser. 2, vol. 10, 1908, p. 337, pl. 26, figs. 1–3; pl. 27, fig, 4.

NOTHOLCA FOLIACEA (Ehrenberg).

Anuræa foliacea EHRENBERG, Infusionsth., 1838, p. 507, pl. 62, fig. 10.

Anuræa heptodon PERTY, Mitth. Nat. Ges. Bern, 1850, p. 21.

? *Anuræa schista* GOSSE, Journ. Royal Micr. Soc., 1887, p. 871, pl. 15, fig. 23.

Notholca foliacea HUDSON and GOSSE, Rotifera, Suppl., 1889, p. 56, pl. 34, fig. 35.

Notholca heptodon HUDSON and GOSSE, Rotifera, Suppl., 1889, p. 56, pl. 34, fig. 34.

Notholca ambigua BERGENDAL, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 128, pl. 4, fig. 24.

NOTHOLCA LONGISPINA (Kellicott).

Anuræa longispina KELLICOTT, Amer. Journ. Micr. Pop. Sci., vol. 4, 1879, p. 19, fig.

Anuræa spinosa IMHOF, Zool. Anz., vol. 6, 1883, p. 470, fig. 2.

Notholca longispina HUDSON and GOSSE, Rotifera, 1886, vol. 2, p. 125, pl. 28, fig. 6.

NOTHOLCA STRIATA (Müller).

Brachionus striatus MÜLLER, Anim. Infus., 1786, p. 332, pl. 47, figs. 1–3.

Anourella striata BORY DE ST. VINCENT, Dict. Class. Hist. Nat., vol. 2, 1822, p. 470.

Anourella lyra BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 91=*Brachionus striatus* Müller renamed.

Anuræa acuminata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 144, pl. 4, fig. 9.
Anuræa striata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 144.
Anuræa inermis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 197.
Anuræa baltica Eichwald, Bull. Soc. Imp. Nat. Moscou, vol. 25, pt. 1, 1852, p. 530, pl. 6, fig. 18.
Notholca acuminata Hudson and Gosse, Rotifera, 1886, vol. 2, p. 125, pl. 29, fig. 3.
Notholca scapha Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 127, pl. 29, fig. 1.
Notholca thalassia Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 127, pl. 29, fig. 2.
Notholca jugosa Gosse, Journ. Royal Micr. Soc., 1887, p. 3, pl. 1, fig. 9.
Notholca rhomboidea Gosse, Journ. Royal Micr. Soc., 1887, p. 3, pl. 1, fig. 10.
Notholca polygona Gosse, Journ. Royal Micr. Soc., 1887, p. 4, pl. 1, fig. 12.
Notholca labis Gosse, Journ. Royal Micr. Soc., 1887, p. 871, pl. 15, fig. 24.
Notholca striata Hudson and Gosse, Rotifera, Suppl., 1889, p. 56, pl. 34, fig. 33.
Notholca equispinata Cosmovici, Naturaliste (Paris), vol. 14, 1892, p. 71.
Notholca hoodii Western, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 158, pl. 9, fig. 3.
Notholca striata labis Weber, Rev. Suisse Zool., vol. 5, 1898, p. 723, pl. 25, figs. 13–15.
Notholca regularis Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 132, pl. 11, fig. 16.
Notholca labis limnetica Levander, Acta Soc. Fauna Flora Fennica, vol. 20, No. 8, 1901, p. 21, fig. 2.
Anuræa gracilis Loppens, Ann. Soc. Malac. Belge, vol. 42, 1907, p. 185, fig.
Notholca striata jugosa Lie-Pettersen, Tromsø Mus. Aarsh., vol. 33, 1911, p. 71.

NOTHOLCA STRIATA BIPALIUM (Müller).

Brachionus bipalium Müller, Anim. Infus., 1786, p. 336, pl. 47, figs. 3–5.
Anourella pandurina Bory de St. Vincent, Class. Anim. Micr., 1826, p. 91= *Brachionus bipalium* Müller renamed.
Anuræa biremis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 144.
Notholca spinifera Gosse, Journ. Royal Micr. Soc., 1887, p. 4, pl. 1, fig. 11.
Anuræa biremis acuminata Loppens, Ann. Soc. Malac. Belge, vol. 42, 1907, p. 185.
Notholca striata biremis Zelinka, Rotat. d. Plankton-Exped., 1907, p. 45.

NOTHOLCA TRIARTHROIDES Skorikov.

Notholca triarthroides Skorikov, Ann. Mus. Zool., St. Petersburg, vol. 8, 1903, p. XX.

Genus NOTOMMATA Ehrenberg.

Notommata Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46=*Labidodon* Ehrenberg, Infusionsth., 1838, p. 425.
Type (by present designation).—*Notommata aurita* (Müller)=*Vorticella aurita* Müller.

NOTOMMATA AURITA (Müller).

Vorticella aurita Müller, Anim. Infus., 1786, p. 288, pl. 41, figs. 1–3.
Furcularia aurita Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 38.
Notommata aurita Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46. Type (by present designation) of subgenus *Labidodon* Ehrenberg, 1838.
? *Cycloglena lupus* Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48.
Notommata lupus Eyferth, Mikr. Süsswasserbew., 1877, p. 49.

NOTOMMATA BRACHYOTA Ehrenberg.

Notommata brachyota Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, pp. 51, 132, pl. 4, fig. 8.

NOTOMMATA CAUDATA Collins.

Notommata caudata Collins, Sci. Goss., 1872, p. 11, fig.
Copeus caudatus Hudson and Gosse, Rotifera, 1886, vol. 2, p. 33, pl. 16, fig. 5.

NOTOMMATA CERBERUS (Gosse).

Copeus cerberus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 34, pl. 16, fig. 3.
Notommata (*Copeus*) *cerberus* de Beauchamp, Zool. Anz., vol. 33, 1908, p. 401, figs. 1–3.

NOTOMMATA COLLARIS Ehrenberg.

Notommata collaris Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 131, pl. 4, fig. 11.
Notommata (*Copeus*) *collaris* de Beauchamp, Arch. Zool. Exp., ser. 4, vol. 10, 1909, p. 86.

NOTOMMATA CONTORTA (Stokes).

Diglena contorta Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 19, 1897, p. 630, pl. 14, fig. 5.
Pleurotrocha contorta Jennings, Amer. Natural., vol. 35, 1901, p. 740.

NOTOMMATA COPEUS Ehrenberg.

Notommata copeus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, pp. 186, 213, pl. 9, fig. 2.
Notommata centrura Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 211, pl. 9, fig. 1.
Copeus notommata Ehrenberg, Infusionsth., 1838, p. 441=*Notommata copeus* Ehrenberg renamed. Type (by present designation) of genus *Copeus* Ehrenberg, 1838.
Copeus ehrenbergii Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 28.
Copeus labiatus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 28, pl. 16, fig. 1.
? *Copeus americanus* Pell, Microscope, vol. 10, 1890, p. 144, fig. 3.
Copeus copeus Collin, Deutsch-Ost-Afrika, vol. 4, No. 15, 1897, p. 5, fig. 3.
Copeus centrurus Daday, Zoologica, Heft 44, 1905, p. 95.
Notommata (*Copeus*) *copeus* de Beauchamp, Zool. Anz., vol. 33, 1908, p. 400.

NOTOMMATA CYRTOPUS Gosse.

Notommata cyrtopus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 22, pl. 17, fig. 7.
? *Notommata distincta* Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 61, pls. 3, 4, fig. 23.

NOTOMMATA GRAVITATA Lie-Pettersen.

Notommata gravitata Lie-Pettersen, Bergens Mus. Aarb., 1905, No. 10, p. 29, pl. 2, figs. 3–5.

NOTOMMATA GRÖNLANDICA Bergendal.

Notommata grönlandica Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 56, pls. 2, 3, fig. 21.

NOTOMMATA HYDROCORA (Ehrenberg).

Tetrasiphon hydrocora Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1840, p. 219. Type (monotype) of genus *Tetrasiphon* Ehrenberg, 1840.
Notommata spicata Hudson, Journ. Royal Micr. Soc., 1885, p. 612, pl. 12, fig. 5.
Copeus spicatus Hudson and Gosse, Rotifera, 1886, vol. 2, p. 29, pl. 16, fig. 2; pl. 30, fig. 7.

NOTOMMATA LIMAX Gosse.

Notommata limax Gosse, Journ. Royal Micr. Soc., 1887, p. 862, pl. 14, fig. 3.

NOTOMMATA LONGIPES Bergendal.

Notommata longipes BERGENDAL, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 66, pl. 2, fig. 20.

NOTOMMATA MELANDOCUS (Gosse).

Furcularia melandocus GOSSE, Journ. Royal Micr. Soc., 1887, p. 2, pl. 1, fig. 4.

NOTOMMATA MONOPUS Jennings.

Notommata monopus JENNINGS, Bull. Michigan Fish Comm., No. 3, 1894, p. 14, figs. 5, 6.

NOTOMMATA NAJAS Ehrenberg.

Notommata najas EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 132.
Furcularia najas DUJARDIN, Hist. Nat. Zooph., 1841, p. 650.
Notommata najas thermalis ISSEL, Atti Soc. Ligustica, vol. 17, 1906, p. 29, pl. 1, figs. 7,8.

NOTOMMATA PACHYURA (Gosse).

? *Notommata ansata* EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 131.
Copeus pachyurus GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 31, pl. 16, fig. 4.
Copeus quinquelobatus STOKES, Journ. Royal Micr. Soc., 1896, p. 277, pl. 6, figs. 10, 11.
Copeus triangulatus KIRKMAN, Journ. Royal Micr. Soc., 1906, p. 264, pl. 12, figs, 1, 2.
Notommata brachiata DADAY, Math. Term. Ért., vol. 26, 1908, p. 31, text fig.
Notommata (*Copeus*) *quinquelobatus* DE BEAUCHAMP, Arch. Zool. Exp., ser. 4, vol. 10, 1909, p. 86.

NOTOMMATA POTAMIS Gosse.

Notommata potamis GOSSE, Journ. Royal Micr. Soc., 1887, p. 365, pl. 8, fig. 10.

NOTOMMATA PSEUDOCERBERUS de Beauchamp.

Notommata (*Copeus*) *pseudocerbèrus* DE BEAUCHAMP, Zool. Anz., vol. 33, 1908, p. 400.

NOTOMMATA PUMILA Rousselet.

Notommata pumila ROUSSELET, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 183, pl. 6, fig. 25.

NOTOMMATA SACCIGERA Ehrenberg.

Notommata saccigera EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 133.

NOTOMMATA SILPHA (Gosse).

Notommata forcipata GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 23, pl. 18, fig. 1; not *Notommata forcipata* Ehrenberg, 1838.
Diglena silpha GOSSE, Journ. Royal Micr. Soc., 1887, p. 2, pl. 1, fig. 2.

NOTOMMATA TORULOSA (Dujardin).

Lindia torulosa DUJARDIN, Hist. Nat. Zooph., 1841, p. 653, pl. 22, fig. 2. Type (monotype) of genus *Lindia* Dujardin, 1841.
Notommata roseola PERTY, Mitth. Nat. Ges. Bern, 1850, p. 18.
Notommata tardigrada LEYDIG, Zeitschr. Wiss. Zool., vol. 6, 1854, p. 39, pl. 3, fig. 31.
Notommata torulosa EYFERTH, Einf. Lebensf., 1878, p. 81.
? *Notommata rubra* GLASSCOTT, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 48, pl. 3, fig. 7.
Notommata vorax STOKES, Ann. Mag. Nat. Hist., ser. 6, vol. 19, 1897, p. 628, pl. 14, figs. 1–3.

NOTOMMATA TRIPUS Ehrenberg.

? *Vorticella felis* Müller, Verm. Terr. Fluv., vol.1, pt. 1, 1773, p. 108.
? *Ecclissa felis* Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 109.
? *Furcularia felis* Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 39.
? *Distemma felis* Ehrenberg, Isis (Oken), vol. 26, 1833, col. 247.
Notommata tripus Ehrenberg, Infusionsth., 1838, p. 434, pl. 50, fig. 4.
? *Plagiognatha felis* Dujardin, Hist. Nat. Zooph., 1841, p. 652. Type (by original designation) of genus *Plagiognatha* Dujardin, 1841.
? *Notommata onisciformis* Perty, Mitth. Nat. Ges. Bern, 1850, p. 19.
Notommata pilarius Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 23, pl. 17, fig. 5.
Notommata mirabilis Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 26, pl. 8, figs. 20, 21.

NOTOMMATA TRUNCATA Jennings.

Notommata truncata Jennings, Bull. Michigan Fish Comm., No. 3, 1894, p. 16, figs. 10, 11.

Doubtful or insufficiently described species:

Notommata ansata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 131.
Notommata celer Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 60.
Notommata constricta (Müller).
Vorticella constricta Müller, Anim. Infus., 1786, p. 293, pl. 42, figs. 6, 7.
Furcularia constricta Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 38.
Notommata constricta Ehrenberg, Isis (Oken), vol. 26, 1833, col. 247.
Notommata cylindriformis Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 47, pl. 3, fig. 5.
Notommata granularis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 133.
Notommata larviformis Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 48, pl. 3, fig. 6.
Notommata lucens Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 79, pl. 6, fig. 6.
Notommata megaladena Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 54, pl. 13, fig. 111.
Notommata melanoglena Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 53, pl. 12, fig. 109.
Notommata pentophthalma Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 116, pl. 9, fig. 4.
Notommata pleurotrocha Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1840, p. 218.
Notommata rapax Gosse, Journ. Royal Micr. Soc., 1887, p. 865.
Notommata sulcata Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 53, pl. 13, fig. 110.
Notommata tarda Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 55, pl. 2, fig. 16.
Notommata volitans Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 47, pl. 3, fig. 4.
Plagiognatha setigerum (Ehrenberg).
Distemma setigerum Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 139.
Plagiognatha setigerum Dujardin, Hist. Nat. Zooph., 1841, p. 652.

Genus OCTOTROCHA Thorpe.

Octotrocha Thorpe, Journ. Royal Micr. Soc., 1893, p. 146.
Type (monotype).—*Octotrocha speciosa* Thorpe.

OCTOTROCHA SPECIOSA Thorpe.

Octotrocha speciosa Thorpe, Journ. Royal Micr. Soc., 1893, p. 146, pl. 2, fig. 1.

OTOGLENA Ehrenberg.

Otoglena Ehrenberg, only species *Otoglena papillosa*, Ehrenberg, Abh. Akad. Wiss. Berlin (for 1835), 1837, pp. 169, 175; unrecognizable.

Genus PARASEISON Plate.

Paraseison Plate, Mitt. Zool. Stat. Neapel, vol. 7, 1887, p. 234.
Type (by present designation).—*Paraseison asplanchnus* Plate.

PARASEISON ASPLANCHNUS Plate.

Paraseison asplanchnus Plate, Mitt. Zool. Stat. Neapel, vol. 7, 1887, p. 235, pl. 8, figs. 1–16.

PARASEISON CILIATUS Plate.

Paraseison ciliatus Plate, Mitt. Zool. Stat. Neapel, vol. 7, 1887, p. 256.

PARASEISON NUDUS Plate.

Paraseison nudus Plate, Mitt. Zool. Stat. Neapel, vol. 7, 1887, p. 255.

PARASEISON PROBOSCIDEUS Plate.

Paraseison proboscideus Plate, Mitt. Zool. Stat. Neapel, vol. 7, 1887, p. 255.

Genus PARASYNCHÆTA Lauterborn.

Parasynchæta Lauterborn, Nordisches Plankton, Lief. 3, No. 10, 1905, p. 29.
Type (monotype).—*Parasynchæta monopus* (Plate)=*Synchæta monopus* Plate.

PARASYNCHÆTA MONOPUS (Plate).

Synchæta monopus Plate, Zeitschr. Wiss. Zool., vol. 49, 1889, p. 1.
Parasynchæta monopus Lauterborn, Nordisches Plankton, Lief. 3, No. 10, 1905, p. 29, text fig.

Genus PEDALIA Barrois.

Pedalia Barrois, Compt. Rend. Ass. Franç. Avanc. Sci. (for 1877), 1878, p. 661.
Type (monotype).—*Pedalia mira* (Hudson)=*Pedalion mira* Hudson.

PEDALIA FENNICA (Levander).

Pedalion fennicum Levander, Zool. Anz., vol. 15, 1892, p. 403.

PEDALIA MIRA (Hudson).

Pedalion mira Hudson, Monthly Micr. Journ., vol. 6, 1871, p. 121, pl. 94, figs. 1–4.
Pedalia mira Barrois, Compt. Rend. Ass. Franç. Avanc. Sci. (for 1877), 1878, p. 661.
Pedalion mirum Hudson and Gosse, Rotifera, 1886, vol. 2, p. 132, pl. 30, fig. 1.

PEDALIA OXYURE (Zernov).

Pedalion oxyure Zernov, Izv. Turkestanskago Otd. Imp. Russk. Geogr. Obshch., vol. 4, pt. 3, 1903, p. 9, pl. 1, figs. 2, 3.
Pedalion mucronatum Daday, Trav. Soc. Nat. St. Petersburg, vol. 39, 1909, pp. 9, 38, pl. 1, figs. 2–6.

PEDALION Hudson.

Pedalion Hudson, Monthly Micr. Journ., vol. 6, 1871, p. 121; not *Pedalion* Swainson, 1839, Pisces; not *Pedalion* Solier, 1847, Mollusca; not *Pedalion* Buckton, 1903, Insecta.

PEDETES Gosse.

Pedetes Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 8; not *Pedetes* Illiger, 1811, Mammalia; not *Pedetes* Faust, 1893, Insecta.

Genus PHILODINA Ehrenberg.

Philodina Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 84.
Type (monotype).—*Philodina erythrophthalma* Ehrenberg.

PHILODINA ACUTICORNIS Murray.

Philodina acuticornis Murray, Ann. Scottish Nat. Hist., 1902, p. 165, pl. 2.

PHILODINA ALATA Murray.

Philodina alata Murray, British Antarctic Exp., vol. 1, 1910, p. 46, pl. 10, fig. 4.

PHILODINA ANTARCTICA Murray.

Philodina antarctica Murray, British Antarctic Exp., vol. 1, 1910, p. 45, pl. 10, fig. 5.

PHILODINA AUSTRALIS Murray.

Philodina australis Murray, Journ. Royal Micr. Soc., 1911, p. 167, pl. 4, fig. 1.

PHILODINA BREVIPES Murray.

Philodina brevipes Murray, Ann. Scottish Nat. Hist., 1902, p. 164, pl. 2.

PHILODINA CITRINA Ehrenberg.

Philodina citrina Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 148, pl. 4, fig. 24.

PHILODINA CONVERGENS Murray.

Philodina convergens Murray, Trans. Royal Soc. Edinburgh, vol. 46, 1908, p. 190, pl. 1, figs. 1–3.

PHILODINA ERYTHROPHTHALMA Ehrenberg.

Philodina erythrophthalma Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 84, pl. 7, fig. 2.

PHILODINA FLAVICEPS Bryce.

Philodina flaviceps Bryce, Trans. Royal Soc. Edinburgh, vol. 45, 1906, p. 172, pl. 1, fig. 1.

PHILODINA GREGARIA Murray.

Philodina gregaria Murray, British Antarctic Exp., vol. 1, 1910, p. 42, pl. 11, fig. 7.

PHILODINA INDICA Murray.

Philodina indica Murray, Journ. Royal Micr. Soc., 1906, p. 638, pl. 18, fig. 1.

PHILODINA MEGALOTROCHA Ehrenberg.

Philodina megalotrocha Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 148.

PHILODINA NEMORALIS Bryce.

Philodina nemoralis Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1903, p. 526, pl. 27, fig. 1.

PHILODINA PLENA (Bryce).

Callidina plena Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1894, p. 450, pl. 24, fig. 4.
Philodina plena Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.

PHILODINA ROSEOLA Ehrenberg.

Philodina roseola Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 147, pl. 3, fig. 16.
Philodina cinnabarina Zacharias, Biol. Centralbl., vol. 6, 1886, p. 231.

PHILODINA RUGOSA Bryce.

Philodina rugosa Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1903, p. 528, pl. 27, figs. 2–4.

PHILODINA RUGOSA CALLOSA Bryce.

Philodina rugosa callosa Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1903, p. 529.

PHILODINA RUGOSA CORIACEA Bryce.

Philodina rugosa coriacea Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 8, 1903, p. 529, pl. 27, fig. 3.

PHILODINA SQUAMOSA Murray.

Philodina squamosa Murray, Journ. Royal Micr. Soc., 1906, p. 639, pl. 18, fig. 2.

PHILODINA VORAX (Janson).

Callidina vorax Janson, Uebers. Rot.-Fam. Philodinäen, 1893, p. 60, pl. 3, figs. 40–42.
Philodina vorax Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 77.

Doubtful or insufficiently described species:

Philodina calcarata Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, 1854, pt. 2, p. 6, pl. 3, fig. 3.
Philodina cloacata Hilgendorf, Trans. New Zealand Inst., vol. 35, 1903, p. 268.
Philodina decurvicornis Murray, Ann. Scottish Nat. Hist., 1902, p. 165, pl. 2.
Philodina emini Collin, Deutsch-Ost-Afrika, vol. 4, No. 15, 1897, p. 4, fig. 1.
Philodina gracilis Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, 1854, pt. 2, p. 7, pl. 4, fig. 1.
Philodina hirsuta Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1840, p. 218.
Philodina macrosipho Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 62, pl. 14, fig. 131.
Philodina microps Gosse, Journ. Royal Micr. Soc., 1887, p. 861, pl. 14, fig. 1.
Philodina obesa Murray, Ann. Scottish Nat. Hist., 1902, p. 165, pl. 2.
Philodina pannosa Bailey, Smiths. Contr. Knowl., vol. 2, 1851, No. 8, p. 42, pl. 3, fig. 6.
Philodina parasitica Marchoux, C. R. Soc. Biol. Paris, ser. 10, vol. 5, 1898, p. 749.
Philodina roseola nivalis Vogt, Ber. 18te Vers. deutsch. Naturf. u. Aerzte z. Erlangen 1840, 1841, p. 137.
Philodina setifera Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 61, pl. 14, fig. 130.
Philodina tuberculata Gosse, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 102.

PHILODINAVUS, new name.

Type (monotype).—*Philodinavus paradoxus* (Murray)=*Microdina paradoxa* Murray.

PHILODINAVUS PARADOXUS (Murray).

Microdina paradoxa Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 371, pls. 1, 2.

PLANOVENTER Hilgendorf.

Planoventer Hilgendorf, only species *Planoventer varicolor* Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 118, pl. 9, fig. 5; unrecognizable.

PLATYIAS new genus.

Type (monotype).—*Platyias quadricornis* (Ehrenberg)=*Noteus quadricornis* Ehrenberg.

PLATYIAS QUADRICORNIS (Ehrenberg).

Noteus quadricornis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 143, pl. 4, fig. 5.
Brachionus quadricornis Dujardin, Hist. Nat. Zooph., 1841, p. 629.
? *Brachionus intermedius* Herrick, Bull. Denison Univ., vol. 1, 1885, p. 56.
Noteus stuhlmanni Collin, Deutsch-Ost-Afrika, vol. 4, No. 15, 1897, p. 8, fig. 9.
Noteus leydigii Haeckel, Kunstformen der Natur, Heft 4, 1900, pl. 32, fig. 7.
Noteus quadricornis brevispinus Daday, Zoologica, Heft 44, 1905, p. 118, pl. 6, fig. 15.

Genus PLEURETRA Bryce.

Pleuretra Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.
Type (by designation of Woodcock, Int. Cat. Sci. Lit., vol. 10, 1911, Zoology, VI, p. 46).—*Pleuretra alpium* (Ehrenberg)=*Callidina alpium* Ehrenberg.

PLEURETRA AFRICANA Murray.

Pleuretra africana Murray, Ann. Transvaal Mus., vol. 3, 1911, p. 4, pl. 1, fig. 2.

PLEURETRA ALPIUM (Ehrenberg).

Callidina alpium Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1853, p. 529.
Philodina alpium Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 383.
Pleuretra alpium Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

PLEURETRA BRYCEI (Weber).

Callidina brycei Weber, Rev. Suisse Zool., vol. 5, 1898, p. 347, pl. 15, figs. 8–12.
Callidina cataracta Lord, Journ. Quekett Micr. Club, ser. 2, vol. 7, 1898, p. 77, pl. 7, fig. 2.
Philodina brycei Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 383.
Pleuretra brycei Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

PLEURETRA HUMEROSA (Murray).

Philodina humerosa Murray, Trans. Royal Soc. Edinburgh, vol. 41, 1905, p. 382, pl. 4, fig. 4.
Pleuretra humerosa Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

PLEURETRA TRIANGULARIS Murray.

Pleuretra triangularis Murray, Bolivia and Peru, 1913, p. 23, text fig.

Genus PLEUROTROCHA Ehrenberg.

Pleurotrocha Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46.
Type (monotype).—*Pleurotrocha petromyzon* Ehrenberg.

PLEUROTROCHA CAUDATA (Bilfinger).

Proales caudata Bilfinger, Jahresh. Naturk. Wurttemburg, vol. 50, 1894, p. 46, pl. 2, figs. 3, 4.
Proales spinosus Lie-Pettersen, Bergens Mus. Aarbog, 1909, No. 15, p. 44; misprint?
Pleurotrocha caudata v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 13.

PLEUROTROCHA DAPHNICOLA (Thompson).

Proales daphnicola Thompson, Sci. Goss., vol. 28, 1892, p. 220, fig.

PLEUROTROCHA LATRUNCULUS (Penard).

Proales latrunculus Penard, Mikrokosmos, vol. 2, 1909, p. 142, figs. 1–7.

PLEUROTROCHA LAURENTINA (Jennings).

Notops laurentinus Jennings, Bull. Michigan Fish Comm., No. 3, 1894, p. 12, figs. 3, 4.
Proales laurentinus Jennings, Bull. Michigan Fish Comm., No. 6, 1896, p. 91.

PLEUROTROCHA PETROMYZON Ehrenberg.

Pleurotrocha petromyzon Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46.
? *Notommata gibba* Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 132, pl. 4, fig. 15.
Notommata petromyzon Ehrenberg, Infusionsth., 1838, p. 427, pl. 50, fig. 7.
Proales petromyzon Hudson and Gosse, Rotifera, 1886, vol. 2, p. 37, pl. 18, fig. 9.

PLEUROTROCHA REINHARDTI (Ehrenberg).

? *Vorticella succolata* Müller, Anim. Infus., 1786, p. 287, pl. 40, figs. 8–12.
? *Furcularia succolata* Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 38.
Furcularia reinhardti Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 208.
Distemma marinum Ehrenberg, Infusionsth., 1838, p. 450, pl. 56, fig. 4. Type (by original designation) of a proposed subgenus *Endesma* Ehrenberg for *Distemma*—species with malleate trophi.
Mytilia tavina Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 110, pl. 26, fig. 8.
Mytilia teresa Gosse, Journ. Royal Micr. Soc., 1887, p. 3, pl. 1, fig. 7.
Notommata theodora Gosse, Journ. Royal Micr. Soc., 1887, p. 862, pl. 14, fig. 2.
Mytilia pœcilops Gosse, Journ. Royal Micr. Soc., 1887, p. 869, pl. 15, fig. 21.
Mytilia producta Gosse, Journ. Royal Micr. Soc., 1887, p. 870, pl. 15, fig. 22.
Notommata reinhardti Hudson and Gosse, Rotifera, Suppl., 1889, p. 22.
Diops marina Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 83, pls. 4, 5, fig. 27.
Pleurotrocha reinhardti v. Hofsten, Zool. Bidr. Uppsala, vol. 1, 1912, p. 187, text fig.

PLEUROTROCHA SIGMOIDEA Skorikov.

Pleurotrocha sigmoidea Skorikov, Trav. Soc. Natural. Charkov, vol. 30, 1896, p. 284, pl. 7, fig. 8.

PLEUROTROCHA SIMILIS (d. Beauchamp).

Proales similis de Beauchamp, Bull. Soc. Zool. France, vol. 32, 1908, p. 153, fig. 2.
Pleurotrocha similis v. Hofsten, Zool. Bidr. Uppsala, vol. 1, 1912, p. 186.

PLEUROTROCHA SORDIDA (Gosse).

Proales sordida Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 37, pl. 18, fig. 7.

Doubtful or insufficiently described species:

Pleurotrocha aurita Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 49, pl. 2, fig. 15.
Pleurotrocha gibba (Ehrenberg).
Hydatina gibba Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 127.
Pleurotrocha gibba Ehrenberg, Infusionsth., 1838, p. 418, pl. 47, fig. 4.
Theora gibba Eyferth, Mikr. Süsswasserbew., 1877, p. 51.
Pleurotrocha renalis Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1840, p. 218.
Pleurotrocha truncata (Gosse).
Pleurotrocha truncata Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 199.
Theora truncata Eckstein, Zeitschr. Wiss. Zool., vol. 39, 1883, p. 372.

Genus PLŒSOMA Herrick.

Plœsoma Herrick, Bull. Denison Univ., vol. 1, 1885, p. 57.=*Gomphogaster* Vorce, Proc. Amer. Soc. Micr., vol. 9, 1888, p. 250.

Type (monotype).—*Plœsoma lenticulare* Herrick.

PLŒSOMA HUDSONI (Imhof).

Gastropus hudsoni Imhof, Zool. Anz., vol. 14, 1891, p. 37.

Gastroschiza flexilis Jägerskiöld, Zool. Anz., vol. 15, 1892, p. 448.

Bipalpus vesiculosus Wierzejski and Zacharias, Zeitschr. Wiss. Zool., vol. 56, 1893, p. 236, pl. 13, figs. 1–5. Type (by present designation) of genus *Bipalpus* Wierzejski and Zacharias, 1893.

Dictyoderma hypopus Lauterborn, Zool. Jahrb., Abt. Syst., vol. 7, 1893, p. 268, pl. 11, figs. 1, 2. Type (monotype) of genus *Dictyoderma* Lauterborn, 1893.

Plœsoma hudsoni Jennings, Zool. Anz., vol. 17, 1894, p. 56.

Plœsoma sibirica Daday, Dritte Asiat. Forschungsr. Graf. Zichy, vol. 2, 1901, p. 453, pl. 24, figs. 1–4.

PLŒSOMA LENTICULARE (Herrick).

Plœsoma lenticulare Herrick, Bull. Denison Univ., vol. 1, 1885, p. 57, fig. 3 (on page preceding index).

Gomphogaster areolatus Vorce, Proc. Amer. Soc. Micr., vol. 9, 1888, p. 250, figs. 1–6. Type (monotype) of genus *Gomphogaster* Vorce, 1888.

Gastropus ehrenbergii Imhof, Zool. Anz., vol. 14, 1891, p. 37.

Gastroschiza foveolata Jägerskiöld, Zool. Anz., vol. 15, 1892, p. 447, figs. 1, 2.

Bipalpus lynceus Wierzejski and Zacharias, Zeitschr. Wiss. Zool., vol. 56, 1893, p. 240, pl. 13, figs. 6–10.

Plœsoma lynceus Jennings, Zool. Anz., vol. 17, 1894, p. 55.

PLŒSOMA TRIACANTHUM (Bergendal).

Gastroschiza triacantha Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 5, p. 1. Type (by present designation) of genus *Gastroschiza* Bergendal, 1892.

Bipalpus triacanthus Bilfinger, Jahresh. Naturk. Württemberg, vol. 50, 1894, p. 54, pl. 3, figs. 13–18.

Plœsoma triacanthum Jennings, Zool. Anz., vol. 17, 1894, p. 56.

PLŒSOMA TRUNCATUM (Levander).

Gastroschiza truncata Levander, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 25, pl. 1, figs. 9–10.

Plœsoma truncatum Weber, Rev. Suisse Zool., vol. 5, 1898, pp. 740, 743, pl. 24, figs. 8–10.

Gastroschiza truncata triangulata Zernov, Izv. Imp. Obshch. Lûb. Î̂Estestv., vol. 98, 1901, p. 31, pl. 4, fig. 26.

Doubtful or insufficiently described species:

Plœsoma lynceum (Ehrenberg).

Salpina lynceus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 219.

Euchlanis lynceus Ehrenberg, Infusionsth., 1838, p. 464, pl. 58, fig. 3.

Gastroschiza lynceus Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 5, p. 2.

Plœsoma lyceum Weber, Rev. Suisse Zool., vol. 5, 1898, p. 737.

Plœsoma molle (Kellicott).

Plœsoma mollis Kellicott, Proc. Amer. Soc. Micr., vol. 19, 1897, p. 47.

Plœsoma molle Weber, Rev. Suisse Zool., vol. 5, 1898, p. 741.

Genus POLYARTHRA Ehrenberg.

Polyarthra Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 226.
Type (monotype).—*Polyarthra trigla* Ehrenberg.

POLYARTHRA EURYPTERA Wierzejski.

Polyarthra platyptera euryptera Wierzejski, Bull. Soc. Zool. France, vol. 16, 1891, p. 50, fig. 1.
Polyarthra latiremis Imhof, Zool. Anz., vol. 14, 1891, p. 125. This name was listed by Imhof in Vierteljahrsschr. Nat. Ges. Zürich, vol. 30, 1885, p. 380, and Zool. Anz., vol. 9, 1886, p. 43, 44, in both cases without a word of description.

POLYARTHRA TRIGLA Ehrenberg.

Polyarthra trigla Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 336, pl. 11, fig. 2.
Polyarthra sexpennis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 226; corrected to *Polyarthra trigla*, p. 336.
Polyarthra platyptera Ehrenberg, Infusionsth., 1838, p. 441, pl. 54, fig. 3.
Polyarthra hexaptera Schmarda, Neue wirbell. Thiere, 1859, vol. 1, p. 55, pl. 13, fig. 117.
Polyarthra platyptera remata Skorikov, Trav. Soc. Natural. Charkov, vol. 30, 1896, p. 277.
Polyarthra platyptera major Burckhardt, Rev. Suisse Zool., vol. 7, 1900, p. 414.
Polyarthra platyptera minor Voigt, Forschungsber. Biol. Stat. Plön, vol. 11, 1904, p. 33.
Polyarthra platyptera palustris Lie-Pettersen, Bergens Mus. Aarb., 1909, No. 15, p. 36, pl. 1, fig. 11.
Polyarthra minor Lucks, Rotatorienfauna Westpreussens, 1912, p. 44.

Eliminated:

Polyarthra fusiformis Spencer, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1890, p. 59, pl. 5, figs. 7–9; to *Gastrotricha* as *Stylochæta fusiformis* (Spencer), Hlava, Zool. Anz., vol. 28, 1904, p. 333.

Genus POMPHOLYX Gosse.

Pompholyx Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 203; not *Pompholyx* Lea, 1856, Mollusca; not *Pompholyx* Freymuth, 1870, Hymenoptera; not *Pompholyx* Stål, 1873, Orthoptera.
Type (monotype).—*Pompholyx complanata* Gosse.

POMPHOLYX COMPLANATA Gosse.

Pompholyx complanata Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 203.
Notholca orientalis Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 229, pl. 7, fig. 14.

POMPHOLYX SULCATA Hudson.

Pompholyx sulcata Hudson, Journ. Royal Micr. Soc., 1885, p. 613, pl. 12, figs. 7, 8.

Genus PROALES Gosse.

Proales Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 36.
Type (by present designation).—*Proales decipiens* (Ehrenberg)=*Notommata decipiens* Ehrenberg.

PROALES DECIPIENS (Ehrenberg).

Notommata decipiens Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 132.
Notommata vermicularis Dujardin, Hist. Nat. Zooph., 1841, p. 648, pl. 21, fig. 7.
Proales decipiens Hudson and Gosse, Rotifera, 1886, vol. 2, p. 36, pl. 18, fig. 6.
Pleurotrocha decipiens v. Hofsten, Ark. Zool., Stockholm, vol. 6, No. 1, 1909, p. 12.

PROALES GIGANTEA (Glasscott).

Notommata gigantea Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 80, pl. 7, fig. 1.
? *Proales ovicola* Giard, Feuilles jeunes Natural., vol. 38, 1908, p. 184.
Proales gigantea Stevens, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1912, p. 481, pl. 24, figs. 1–5.

PROALES PARASITA (Ehrenberg).

Notommata parasita Ehrenberg, Infusionsth., 1838, p. 426, pl. 50, fig. 1.
Proales parasita Rousselet, Proc. Royal Irish Acad., vol. 31, No. 51, 1911, p. 8.

PROALES WERNECKII (Ehrenberg).

Notommata werneckii Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 216.
Copeus werneckii Ehrenberg, Infusionsth., 1838, p. 441.
Proales werneckii Hudson and Gosse, Rotifera, Suppl., 1889, p. 23, pl. 32, fig. 18.

Doubtful or insufficiently described species:

Proales algicola Kellicott, Proc. Amer. Soc. Micr., vol. 19, 1897, p. 48.
Proales coryneger Gosse, Journ. Royal Micr, Soc., 1887, p. 863, pl. 14, fig. 4.
Proales inflata Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 51, pl. 4, fig. 1.
Proales micropus (Gosse).
Furcularia micropus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 46, pl. 19, fig. 12.
Proales micropus Jennings, Amer. Natural., vol. 35, 1901, p. 743, pl. 5, fig. 82.
Proales othodon Gosse, Journ. Royal Micr. Soc., 1887, p. 366, pl. 8, fig. 11.
Proales prehensor Gosse, Journ. Royal Micr. Soc., 1887, p. 366, pl. 8, fig. 12.

Genus PROALIDES de Beauchamp.

Proalides de Beauchamp, Bull. Soc. Zool. France, vol. 32, 1907, p. 148.
Type (monotype).—*Proalides tentaculatus* de Beauchamp.

PROALIDES TENTACULATUS de Beauchamp.

Proalides tentaculatus de Beauchamp, Bull. Soc. Zool. France, vol. 32, 1907, p. 148, fig. 1.

PROALIDES VERRUCOSUS (Barrois and Daday).

Adactyla verrucosa Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 227, pl. 7, figs. 4, 8.
Proalides verrucosus de Beauchamp, Bull. Soc. Zool. France, vol. 32, 1907, p. 152.

Genus PSEUDŒCISTES Stenroos.

Pseudœcistes Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 107.
Type (monotype).—*Pseudœcistes rotifer* Stenroos.

PSEUDŒCISTES ROTIFER Stenroos.

Pseudœcistes rotifer Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 107, pl. 1, figs. 11–17.

PTERŒSSA Gosse.

Pterœssa Gosse, only species *Pterœssa surda* Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 4, pl. 13, fig. 9; probably not a rotifer.

Genus PTYGURA Ehrenberg.

Ptygura Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 122.
Type (monotype).—*Ptygura melicerta* Ehrenberg.

PTYGURA BRACHIATA (Hudson).

Œcistes brachiatus Hudson, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 83, pl. 9, fig. 2.

PTYGURA BREVIS (Rousselet).

Œcistes brevis Rousselet, Journ. Royal Micr. Soc., 1893, p. 448, pl. 7, fig. 4. (*Œcistes brevis* Hood, Journ. Royal Micr. Soc., 1893, p. 281: *nomen nudum.*)

PTYGURA CRYSTALLINA (Ehrenberg).

Œcistes crystallinus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 223.
Type (monotype) of genus *Œcistes* Ehrenberg, 1834.
Œcistes hyalinus Ehrenberg, Infusionsth., 1838, pl. 43, fig. 7.
Ptygura crystallina Dujardin, Hist. Nat. Zooph., 1841, p. 616.
Melicerta crystallina Gosse, Pop. Sci. Rev., vol. 1, 1862, p. 490.

PTYGURA INTERMEDIA (Davis).

Œcistes intermedius Davis, Trans. Royal Micr. Soc., vol. 15, 1867, p. 14, pl. 1, figs. 1–4.

PTYGURA LONGICORNIS (Davis).

Œcistes longicornis Davis, Trans. Royal Micr. Soc., vol. 15, 1867, p. 14, pl. 1, figs. 5–8.

PTYGURA LONGIPES (Wills).

Œcistes longipes Wills, Midland Natural., vol. 1, 1878, p. 317, pl. 5, figs. 1, 2.
Œcistes umbella Hudson, Journ. Royal Micr. Soc., 1879, p. 1, pl. 1.

PTYGURA MELICERTA (Ehrenberg).

Ptygura melicerta Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 122.
Œcistes serpentinus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 80, pl. 9, fig. 1.
Œcistes ptygura Hudson and Gosse, Rotifera, 1886, vol. 2, p. 134.
Cephalosiphon furcillatus Kellicott, Proc. Amer. Soc. Micr., vol. 11, 1889, p. 32, fig.
Œcistes melicerta Jennings, Bull. U. S. Fish Comm., vol. 19 (for 1899), 1900, p. 76.

PTYGURA MUCICOLA (Kellicott).

Œcistes mucicola Kellicott, Proc. Amer. Soc. Micr., vol. 10, 1888, p. 88, fig.

PTYGURA PILULA (Cubitt).

Melicerta pilula Cubitt, Monthly Micr. Journ., vol. 8, 1872, p. 5, pl. 24, figs. 2–4.
? *Melicerta socialis* Collins, Sci. Goss., 1872, p. 9, fig.
Œcistes pilula Wills, Midland Natural., vol. 1, 1878, p. 202.

PTYGURA SOCIALIS (Weber).

Œcistes socialis Weber, Arch. Biol., Liège, vol. 8, 1888, p. 655, pl. 28, figs. 1–4.

PTYGURA STEPHANION (Anderson).

Œcistes stephanion Anderson, Journ. Asiatic Soc. Bengal, vol. 58, pt. 2, 1889, p. 347, pl. 20, fig. 2.

PTYGURA STYGIS (Gosse).

Œcistes stygis Gosse, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 85, pl. 9, fig. 3.

PTYGURA VELATA (Gosse).

Megalotrocha velata Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 198.
Melicerta ptygura Gosse, Pop. Sci. Rev., vol. 1, 1862, p. 490, pl. 26, fig. *d*.
Œcistes velatus Hudson and Gosse, Rotifera, 1886, vol. 1, p. 83, pl. *D*, fig. 8.

PTYGURA WILSONII (Anderson and Shephard).

Œcistes wilsonii Anderson and Shephard, Proc. Royal Soc. Victoria, n. ser., vol. 4, 1892, p. 72, pl. 13, fig. 3.

Doubtful species:

Œcistes syriacus Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 225, pl. 7, figs. 15, 17.

RATULUS Bory de St. Vincent.

Ratulus Bory de St. Vincent, Class. Anim. Micr., 1826, p. 59.
Type (by present designation).—*Ratulus lunaris* (Müller)=*Trichoda lunaris* Müller.
All the species are unrecognizable.

Ratulus clavus (Müller).
Trichoda clavus Müller, Anim. Infus., 1786, p. 208, pl. 29, figs. 16–18.
Rattulus clavus Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 24.
Ratulus cercarioides Bory de St. Vincent, Class Anim. Micr., 1826, p. 59.
Ratulus delphis (Müller).
Trichoda delphis Müller, Anim. Infus., 1786, p. 201, pl. 30, figs. 8, 9.
Ratulus delphis Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 667.
Ratulus lunaris (Müller).
Trichoda lunaris Müller, Anim. Infus., 1786, p. 204, pl. 29, figs. 1–3.
Ratulus lunaris Bory de St. Vincent, Class. Anim. Micr., 1826, p. 59.
Rattulus lunaris Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 47.
Cercaria lunaris Lamarck, Hist. Nat. Anim. sans Vert., ed. 2, vol. 1, 1835, p. 431.
Mastigocerca lunaris Weisse, Bull. Phys.-Math. Acad. Sci. St. Petersburg, vol. 5, 1846, p. 227, figs. 4–6.
Ratulus lynceus (Müller).
Trichoda lynceus Müller, Anim. Infus., 1786, p. 225, pl. 32, figs. 1, 2.
Ratulus lynceus Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 668.
Ratulus mus Bory de St. Vincent.
Ratulus mus Bory de St. Vincent, Class. Anim. Micr., 1826, p. 60.
Ratulus musculus (Müller).
Trichoda musculus Müller, Anim. Infus., 1786, p. 210, pl. 30, figs. 5–7.
Vaginaria musculus Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 144.
Ratulus musculus Bory de St. Vincent, Class. Anim. Micr., 1826, p. 60.

Genus RHINOGLENA Ehrenberg.

Rhinoglena Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1853, pp. 190, 193=*Rhinops* Hudson, Ann. Mag. Nat. Hist., ser. 4, vol. 3, 1869, p. 27.
Type (monotype).—*Rhinoglena frontalis* Ehrenberg.

RHINOGLENA FRONTALIS Ehrenberg.

Diglena (*Rhinoglena*) *frontalis* Ehrenberg, Monatsber. Akad. Wiss. Berlin, 1853, pp. 190, 193.
Rhinops vitrea Hudson, Ann. Mag. Nat. Hist., ser. 4, vol. 3, 1869, p. 27, pl. 2. Type (monotype) of genus *Rhinops* Hudson, 1869.

RHOPALOSOMA Voigt.

Rhopalosoma Voigt, Zool. Anz., vol. 25, 1902, p. 678; not *Rhopalosoma* Cresson, 1865, Hymenoptera.

RHYNCHOPOGON Werneck.

Rhynchopogon Werneck, Monatsber. Akad. Wiss. Berlin, 1841, p. 377. No species named.

Genus ROTARIA Scopoli.

Rotaria Scopoli, Intr. Hist. Nat., 1777, p. 375=*Rotifer* Cuvier, Tabl. Élém. Hist. Nat., 1798, p. 659=*Urceolaria* Lamarck, Syst. Anim. sans Vert., 1801, p. 389=*Furcularia* Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 39=*Esechielina* Bory de St. Vincent, Class. Anim. Micr., 1826, p. 76=*Ezechielina* Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 14, 1828, p. 685.

Type (monotype).—*Rotaria rotatoria* (Pallas)=*Brachionus rotatorius* Pallas.

ROTARIA CITRINA (Ehrenberg).

Rotifer citrinus Ehrenberg, Infusionsth., 1838, p. 489, pl. 60, fig. 5.

ROTARIA CURTIPES (Murray).

Rotifer curtipes Murray, Journ. Royal Micr. Soc., 1911, p. 578, pl. 17, fig. 8.

ROTARIA ELONGATA (Weber).

Rotifer elongatus Weber, Arch. Biol., Liège, vol. 8, 1888, p. 671, pl. 31, figs. 1–6.

ROTARIA MACROCEROS (Gosse).

Rotifer macroceros Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 202.

ROTARIA MACRURA (Ehrenberg).

? *Esechielina gracilicauda* Bory de St. Vincent, Class. Anim. Micr., 1826, p. 78.

? *Ezechielina gracilicauda* Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 14, 1828, p. 685.

Rotifer macrurus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 145, pl. 4, fig. 22. Not *Rotifer macrourus* (Hermann).

ROTARIA MAGNA-CALCARATA (Parsons).

Callidina magna-calcarata Parsons, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1892, p. 378, pl. 25, fig. 1.

Rotifer magna-calcaratus Bryce, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

ROTARIA MENTO (Anderson).

Rotifer mento Anderson, Journ. Asiatic Soc. Bengal, vol. 58, 1889, pt. 2, p. 350, pl. 20, fig. 5.

ROTARIA MONTANA (Murray).

Rotifer montanus Murray, Journ. Royal Micr. Soc., 1911, p. 578, pl. 17, fig. 7.

ROTARIA NEPTUNIA (Ehrenberg).

? *Vorticella macroura* Hermann, Naturforscher, vol. 19, 1783, p. 57, pl. 2, fig. 23.

? *Rotifer macrourus* Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 111.

Actinurus neptunius Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 145, pl. 4, fig. 23. Type (monotype) of genus *Actinurus* Ehrenberg, 1832.

Rotifer actinurus Janson, Uebers. Rot.-Fam. Philodinäen, 1893, p. 48, pl. 2, figs. 16, 17.

Rotifer neptunius Jennings, Bull. U. S. Fish Comm., vol. 19 (for 1899), 1900, p. 79.

Hermann's description of his *Vorticella macroura* is as follows:

. . . Sie ist freylich dem gemeinen Räderthier ähnlich, aber viel länger und schlanker: nicht gelb, sondern ganz durchsichtig weiss; hat auch kleinere Rädchen.

That this does not fit the animal, which Ehrenberg calls *Rotifer macrurus* Schrank, should be evident to any one who has seen the latter. Schrank added nothing to Hermann's description, which may probably be considered sufficiently vague to be dropped.

ROTARIA NEPTUNOIDA, new name.

Rotifer neptunius MILNE, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 136, pl. 1, fig. 1; *not Rotifer neptunius* (Ehrenberg).

ROTARIA OVATA (Anderson).

Actinurus ovatus ANDERSON, Journ. Asiatic Soc. Bengal, vol. 58, pt. 2, 1889, p. 351, pl. 20, fig. 6.

Rotifer ovatus JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 49.

ROTARIA ROTATORIA (Pallas).

Brachionus rotatorius PALLAS, Elench. Zooph., 1766, p. 94.

Vorticella rotatoria MÜLLER, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 106.

Rotifer redivivus CUVIER, Tabl. Élém. Hist. Nat., 1798, p. 659, pl. 14. Type (monotype) of genus *Rotifer* Cuvier, 1798= *Vorticella rotatoria* renamed.

Urceolaria rediviva LAMARCK, Syst. Anim. sans Vert., 1801, p. 389. Type (monotype) of genus *Urceolaria* Lamarck, 1801.

Rotifer vulgaris SCHRANK, Grundr. Naturg., 1801, p. 387= *Vorticella rotatoria* renamed.

Furcularia rediviva LAMARCK, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 39.

Furcularia rotatoria BLUMENBACH, Handb. Naturg., ed. 10, 1821, p. 503.

Esechielina bakeri BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 77.

Esechielina leuwenhoekii BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 78.

Esechielina mülleri BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 77. Type (by present designation) of genus *Esechielina* Bory de St. Vincent, 1826= *Vorticella rotatoria* renamed.

Ezechielina bakeri BORY DE ST. VINCENT, Dict. Class. Hist. Nat., vol. 14, 1828, p. 685.

Ezechielina leuwenhoekii BORY DE ST. VINCENT, Dict. Class. Hist. Nat., vol. 14, 1828, p. 685.

Ezechielina mülleri BORY DE ST. VINCENT, Dict. Class. Hist. Nat., vol. 14, 1828, p. 685. Type (by present designation) of genus *Ezechielina* Bory de St. Vincent, 1828= *Vorticella rotatoria* renamed.

Rotifer brachyurus EHRENBERG, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, pl. 1, fig. 18.

Rotifer granularis ZACHARIAS, Zeitschr. Wiss. Zool., vol. 41, 1885, p. 229.

Rotifer vulgaris granulosus JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 45.

ROTARIA SORDIDA (Western).

Callidina sordida WESTERN, Journ. Quekett Micr. Club, ser. 2, vol. 5, 1893, p. 159, pl. 9, fig. 1.

Callidina longirostris JANSON, Uebers. Rot.-Fam. Philodinäen, 1893, p. 57, pl. 3, figs. 33, 34.

Rotifer longirostris BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 76.

In his literature references Janson cites under No. 443*a*: Rousselet, On a method of preserving Rotatoria, Journ. Quekett Micr. Club, 2. ser., vol. 5, 1893, pp. 205–209. As Western's description of *Callidina sordida* appeared in the same number, No. 32, it is evident that his name has priority over Janson's.

ROTARIA SORDIDA BITORQUATA (Murray).

Rotifer longirostris bitorquatus Murray, Journ. Royal Micr. Soc., 1908, p. 668, pl. 15, fig. 8.

ROTARIA SORDIDA FIMBRIATA (Murray).

Rotifer longirostris fimbriata Murray, Journ. Royal Micr. Soc., 1906, p. 643, pl. 19, fig. 7.

ROTARIA SPICATA (Murray).

Rotifer spicatus Murray, Ann. Scottish Nat. Hist., 1902, p. 167, pl. 3.

ROTARIA TARDIGRADA (Ehrenberg).

Rotifer tardigradus Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 145.
Rotifer tardus Ehrenberg, Infusionsth., 1838, p. 490, pl. 60, fig. 8.

ROTARIA TRISECATA (Weber).

Rotifer trisecatus Weber, Arch. Biol., Liège, vol. 8, 1888, p. 664, pl. 30, figs. 1–9.

Doubtful or insufficiently described species:

Rotifer albivestitus Dutrochet, Ann. Mus. Hist. Nat., vol. 19, 1812, p. 375, pl. 18, figs. 9, 10.
Rotifer erythræus Ehrenberg, Hemprich and Ehrenberg, Symb. Phys. Anim. Evert., 1831, Phytozoa, fol. e (third page), pl. 2, Sinaitica, fig. 18.
Rotifer forficatus Barrois and Daday, Math. Term. Ért., vol. 12, 1894, p. 223, pl. 7, figs. 3, 5, 6.
Rotifer giganteus Skorikov, Trav. Soc. Natural. Charkov, vol. 30, 1896, p. 262.
Rotifer hapticus Gosse, Hudson and Gosse, Rotifera, 1886, vol. 1, p. 106, pl. 10, fig. 3.
Rotifer inflatus Dujardin, Hist. Nat. Zooph., 1841, p. 659, pl. 17, fig. 2.
Rotifer maximus Bartsch, Jahresh. Naturk. Württemberg, vol. 26, 1870, p. 352.
Rotifer megaceros Schmarda, Denkschr. Akad. Wiss. Wien, vol. 7, 1854, pt. 2, p. 22, pl. 6, fig. 6.
Rotifer motacilla Bartsch, Jahresh. Naturk. Württemberg, vol. 26, 1870, p. 351.
Rotifer phaleratus Glasscott, Proc. Royal Dublin Soc., n. ser., vol. 8, 1893, p. 38, pl. 3, fig. 1.
Rotifer quadrioculatus Murray, Ann. Scottish Nat. Hist., 1902, p. 166, pl. 3.
Rotifer tridentatus Stewart, Rec. Indian Mus. Calcutta, vol. 2, 1908, p. 317, figs. 1, 2.
Rotifer vestitus Bailey, Smiths. Contr. Knowl., vol. 2, 1851, No. 8, p. 41, pl. 3, figs. 9, 14.
Esechielina capsularis Bory de St. Vincent, Class. Anim. Micr., 1826, p. 78.
Ezechielina capsularis Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 14, 1828, p. 685.

SABELLA Linnæus.

Sabella Linnæus, Syst. Nat., ed. 12, 1767, vol. 1, pt. 2, p. 1268.
Type (by present designation).—*Sabella penicillus* (Linnæus)=*Serpula penicillus* Linnæus; to Annulata.

Sabella penicillus (Linnæus).
Serpula penicillus Linnæus, Syst. Nat., ed. 10, 1758, p. 788.
Sabella penicillus Linnæus, Syst. Nat., ed. 12, 1767, vol. 1, pt. 2, p. 1269.

Genus SACCOBDELLA van Beneden and Hesse.

Saccobdella van Beneden and Hesse, Mém. Acad. Royale Belgique, vol. 34, No. 1, 1864, p. 48.
Type (monotype).—*Saccobdella nebaliæ* van Beneden and Hesse.

SACCOBDELLA NEBALIÆ van Beneden and Hesse.

Saccobdella nebaliæ VAN BENEDEN and HESSE, Mém. Acad. Royale Belgique, vol. 34, No. 1, 1864, p. 49, pl. 4, figs. 1–14.

Genus SCARIDIUM Ehrenberg.

Scaridium EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 47.
Type (monotype).—*Scaridium longicaudum* (Müller) = *Trichoda longicauda* Müller.

SCARIDIUM EUDACTYLOTUM Gosse.

Scaridium eudactylotum GOSSE, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 74, pl. 21, fig. 4.

SCARIDIUM LONGICAUDUM (Müller).

Trichoda longicauda MÜLLER, Anim. Infus., 1786, p. 216, pl. 31, figs. 8–10.
Vaginaria longicaudata SCHRANK, Fauna Boica, vol. 3, pt. 2, 1803, p. 139.
Trichocerca longicauda LAMARCK, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 25.
Vaginicola longicauda SCHWEIGGER, Handb. Naturg., 1820, p. 407.
Furcularia longicauda BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 70.
Scaridium longicaudum EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 47.
Scaridium longicaudum maculatum BERGENDAL, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 110.

Genus SCEPANOTROCHA Bryce.

Scepanotrocha BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 74.
Type (by present designation).—*Scepanotrocha rubra* Bryce.

SCEPANOTROCHA CORNICULATA Bryce.

Scepanotrocha corniculata BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 79, pl. 2, fig. 2.

SCEPANOTROCHA RUBRA Bryce.

Scepanotrocha rubra BRYCE, Journ. Quekett Micr. Club, ser. 2, vol. 11, 1910, p. 78, pl. 2, fig. 1.

Genus SCHIZOCERCA Daday.

Schizocerca DADAY, Math. Term. Ért., vol. 1, 1883, p. 291.
Type (monotype).—*Schizocerca diversicornis* Daday.

SCHIZOCERCA DIVERSICORNIS Daday.

Schizocerca diversicornis DADAY, Math. Term. Ért., vol. 1, 1883, p. 291.
Brachionus amphifurcatus IMHOF, Zool. Anz., vol. 10, 1887, p. 578.
Schizocerca diversicornis homoceros WIERZEJSKI, Bull. Soc. Zool. France, vol. 16, 1891, p. 51, fig. 2.

Genus SEISON Grube.

Seison GRUBE, Jahresber. Schlesischen Ges. Vaterl. Cultur, vol. 37, 1859, p. 25.
Type (monotype).—*Seison nebaliæ* Grube.

SEISON ANNULATUS Claus.

Seison annulatus CLAUS, Festschr. Zool.-Bot. Ges. Wien, 1876, p. 78, pl. 2, figs. 11, 12.

SEISON NEBALIÆ Grube.

Seison nebaliæ GRUBE, Jahresber. Schlesischen Ges. Vaterl. Cultur, vol. 37, 1859, p. 25.
Seison grubei CLAUS, Festschr. Zool. Bot. Ges. Wien, 1876, p. 78, pl. 1, figs. 1–5; pl. 2, figs. 6–10.

Claus says (p. 78): " . . . Die erstere entspricht wahrscheinlich der von Grube beschriebenen Form und mag deshalb als *Seison grubei* bezeichnet werden." It would seem more natural to retain the original name.

SERPULA Linnæus.

Serpula Linnæus, Syst. Nat., ed. 10, 1758, p. 786.
Type (by present designation).—*Serpula glomerata* Linnæus; to Annulata.

Serpula glomerata Linnæus.
Serpula glomerata Linnæus, Syst. Nat., ed. 10, 1758, p. 787.
Serpula vermicularis Linnæus, Syst. Nat., ed. 12, 1767, vol. 1, pt. 2, p. 1266.
(According to Mørch, Naturhist. Tidsskr., Kjøbenhavn, ser. 3, vol. 1, 1863, p. 382, *Serpula glomerata* Linnæus is the test of *Serpula vermicularis* Linnæus.)

SILIQUELLA Bory de St. Vincent.

Siliquella Bory de St. Vincent, Class. Anim. Micr., 1826, p. 83.
Type (monotype).—*Siliquella impressa* (Müller); unrecognizable.

Siliquella impressa (Müller).
Brachionus impressus Müller, Anim. Infus., 1786, p. 355, pl. 50, figs. 12–14.
Siliquella bursa-pastoris Bory de St. Vincent, Class. Anim. Micr., 1826, p. 84=*Brachionus impressus* renamed.

Genus SINANTHERINA Bory de St. Vincent.

Sinantherina Bory de St. Vincent, Class. Anim. Micr., 1826, p. 67=*Synantherina* Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 709=*Sinantherina* renamed.
Type (monotype).—*Sinantherina socialis* (Linnæus)=*Hydra socialis* Linnæus, part.

SINANTHERINA PROCERA (Thorpe).

Megalotrocha procera Thorpe, Journ. Royal Micr. Soc., 1893, p. 150, pl. 3, fig. 5.

SINANTHERINA SEMIBULLATA (Thorpe).

Megalotrocha semibullata Thorpe, Journ. Royal Micr. Soc., 1889, p. 614, pl. 12.
Megalotrocha binotata Daday, Math. Term. Ért., vol. 15, 1897, p. 133, fig. 2.

SINANTHERINA SOCIALIS (Linnæus).

Hydra socialis Linnæus, part, Syst. Nat., ed. 10, 1758, p. 817.
Vorticella socialis Müller, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 112.
Lacinularia socialis Schweigger, Handb. Naturg., 1820, p. 408.
Stentor socialis Goldfuss, Handb. Zool., 1820, p. 70.
Stentorina biloba Bory de St. Vincent, part, Class. Anim. Micr., 1826, p. 67.
Stentorina rœselii Bory de St. Vincent, part, Class. Anim. Micr., 1826, p. 67.
Sinantherina socialis Bory de St. Vincent, Class. Anim. Micr., 1826, p. 68.
Synantherina socialis Bory de St. Vincent, Enc. Méth., Zooph. (pt. 2), 1827, p. 709.
Type (monotype) of genus *Synantherina* Bory de St. Vincent, 1827.
Megalotrocha alba Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 45.
Megalotrocha alboflavicans Ehrenberg, Infusionsth., 1838, p. 397.
Megalotrocha flavicans Ehrenberg, Infusionsth., 1838, pl. 44, fig. 3.
Lacinularia alboflavicans Cubitt, Monthly Micr. Journ., vol. 8, 1872, p. 9, pl. 23, fig. 5.

For discussion of synonymy, see under *Lacinularia flosculosa* (Müller).

SINANTHERINA SPINOSA (Thorpe).

Megalotrocha spinosa Thorpe, Journ. Royal Micr. Soc., 1893, p. 151, pl. 3, fig. 6.

SPHYRIAS, new genus.

Type (monotype).—*Sphyrias lofuana* (Rousselet)=*Notops lofuana* Rousselet.

SPHYRIAS LOFUANA (Rousselet).

Notops lofuana ROUSSELET, Proc. Zool. Soc. London, 1910, p. 795, pl. 75, figs. 1–3.

SQUAMELLA Bory de St. Vincent.

Squamella BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 90=*Squamulella* Bory de St. Vincent, Dict. Class. Hist. Nat., vol. 2, 1822, p. 470; no species.
Type (monotype).—*Squamella bractea* (Müller)=*Brachionus bractea* Müller.

Squamella bractea (MÜLLER).
Brachionus bractea MÜLLER, Anim. Infus., 1786, p. 343, pl. 49, figs. 6, 7.
Vaginaria bractea SCHRANK, Fauna Boica, vol. 3, pt. 2, 1803, p. 143.
Squamella limulina BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 90=*Brachionus bractea* renamed.

That Müller's *Brachionus bractea* was a *Euchlanis* is reasonably certain from his figure and description, but it is impossible to identify it definitely with any of the numerous species of this genus, and *Squamella* Bory de St. Vincent must consequently be dropped.

Genus SQUATINELLA Bory de St. Vincent.

Squatinella BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 88=*Stephanops* Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 44.
Type (monotype).—*Squatinella cirrata* (Müller) as *caligula* Bory de St. Vincent=*Brachionus cirratus* Müller.

SQUATINELLA BIFURCA (Hudson).

Stephanops bifurcus HUDSON, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 77.

SQUATINELLA BISETATA (Ternetz).

Stephanops bisetatus TERNETZ, Rot. Umg. Basels, 1892, pp. 15, 33, pl. 2, figs. 8, 9.

SQUATINELLA CIRRATA (Müller).

Brachionus cirratus MÜLLER, Verm. Terr. Fluv., vol. 1, pt. 1, 1773, p. 132.
Squatinella caligula BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 88=*Brachionus cirratus* renamed.
Stephanops cirratus EHRENBERG, Abh. Akad. Wiss. Berlin, 1830 p. 44. Type (by present designation) of genus *Stephanops* Ehrenberg, 1830.
Lepadella cirrata DUJARDIN, Hist. Nat. Zooph., 1841, p. 633.

SQUATINELLA LAMELLARIS (Müller).

Brachionus lamellaris MÜLLER, Anim. Infus., 1786, p. 340, pl. 47, figs. 8–11.
Lepadella lamellaris BORY DE ST. VINCENT, Enc. Méth., Zooph. (pt. 2), 1827, p. 484.
Stephanops lamellaris EHRENBERG, Abh. Akad. Wiss. Berlin, 1830, p. 44.
Listrion rostrum SCHMARDA, Beitr. Naturg. Infus., 1846, p. 20, pl. 2, fig. 4. Type (monotype) of genus *Listrion* Schmarda, 1846.

SQUATINELLA LONGISPINATA (Tatem).

Stephanops longispinatus TATEM, Quart. Journ. Micr. Sci., n. ser., vol. 7, 1867, p. 252, pl. 10, figs. 1–3.
Stephanops uniseta COLLINS, Sci. Goss., 1872, p. 11, fig.

Stephanops armatus HUDSON, Journ. Royal Micr. Soc., 1885, p. 613, pl. 12, fig. 6.
Stephanops leydigii ZACHARIAS, Zool. Anz., vol. 9, 1886, p. 318.
Stephanops unisetatus HUDSON and GOSSE, Rotifera, 1886, vol. 2, p. 76, pl. 21, fig. 8.
Stephanops tripus HUDSON, Hudson and Gosse, Rotifera, Suppl., 1889, p. 36, pl. 33, fig. 24.
Stephanops variegatus LEVANDER, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 41, pl. 2, fig. 20.

SQUATINELLA MICRODACTYLA (Murray).

Stephanops microdactylus MURRAY, Ann. Scottish Nat. Hist., 1906 p. 90, figs. 1–6.

SQUATINELLA MUTICA (Ehrenberg).

Stephanops muticus EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 138.

SQUATINELLA STYLATA (Milne).

Stephanops stylatus MILNE, Proc. Philos. Soc. Glasgow, vol. 17, 1886, p. 143, pl. 2, figs. 3, 4, 9.

SQUATINELLA TENELLA (Bryce).

Stephanops tenellus BRYCE, Proc. Zool. Soc. London, 1897, p. 798.

SQUATINELLA TRIDENTATA (Fresenius).

Stephanops tridentatus FRESENIUS, Abh. Senckenbergischen Nat. Ges., vol. 2, 1858, p. 216, pl. 10, fig. 11.
Stephanops intermedius BURN, Sci. Goss., vol. 25, 1889, p. 179, figs. 1–3.
Stephanops dichthaspis ANDERSON, Journ. Asiatic Soc. Bengal, vol. 58, 1889, pt. 2, p. 353, pl. 20, fig. 7.
Stephanops grönlandicus BERGENDAL, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 111, pl. 6, fig. 41.
Stephanops emarginatus BILFINGER, Jahresh. Naturk. Württemberg, vol. 50, 1894, p. 52, pl. 3, fig. 12.

Unrecognizable:

Stephanops ovalis SCHMARDA, Neue wirbell. Thiere, 1859, vol. 1, p. 60, pl. 14, fig. 127.

STENTOR Oken.

Stentor OKEN, Lehrb. Naturg., vol. 3, pt. 1, 1815, p. 45=*Stentorina* Bory de St. Vincent, Class. Anim. Micr., 1826, p. 66.
Type (by present designation).—*Stentor stentorius* (Linnæus) as *solitarius* Oken=*Hydra stentoria* (Linnæus); to Protozoa.

Stentor stentorius (LINNÆUS).
Hydra stentoria LINNÆUS, Syst. Nat., ed. 10, 1758, p. 817.
Brachionus stentoreus PALLAS, Elench. Zooph., 1766, p. 95.
Vorticella stentorea MÜLLER, Verm. Terr. Fluv., vol., 1, pt. 1, 1773, p. 120.
Stentor solitarius OKEN, Lehrb. Naturg., vol. 3, pt. 1, 1815, p. 45=*Vorticella stentorea* renamed.
Stentorina hyerocontica BORY DE ST. VINCENT, Class. Anim. Micr., 1826, p. 67, Type (by present designation) of genus *Stentorina* Bory de St. Vincent, 1826=*Vorticella stentorea* renamed.

Genus STEPHANOCEROS Ehrenberg.

Stephanoceros EHRENBERG, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 125.
Type (monotype).—*Stephanoceros fimbriatus* (Goldfuss) as *eichhornii* Ehrenberg=*Coronella fimbriata* Goldfuss.

STEPHANOCEROS FIMBRIATUS (Goldfuss).

Coronella fimbriata Goldfuss, Handb. Zool., 1820, p. 77.
Stephanoceros eichhornii Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 125.
Stephanoceros vulgaris Oken, Allg. Naturg., vol. 5, pt. 1, 1835, p. 48.
? *Stephanoceros glacialis* Perty, Mitth. Nat. Ges. Bern, 1849, p. 34.
Stephanoceros fimbriatus Montgomery, Proc. Acad. Nat. Sci. Philadelphia, vol. 55, 1903, p. 374, pl. 19, figs. 9–18.

STEPHANOCEROS MILLSII (Kellicott).

Floscularia millsii Kellicott, Proc. Amer. Soc. Micr., vol. 7, 1885, p. 48, pl. 2, fig. 9.
Stephanoceros millsii Kellicott, Proc. Amer. Soc. Micr., vol. 9, 1888, p. 183.

Genus SYNCHÆTA Ehrenberg.

Synchæta Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 135.
Type (by present designation).—*Synchæta pectinata* Ehrenberg.

SYNCHÆTA ATLANTICA Zelinka.

Synchæta atlantica Zelinka, Rotat. Plankton-Exped., 1907, p. 5, pl. 1, figs. 1–11.

SYNCHÆTA BALTICA Ehrenberg.

Synchæta baltica Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 220.
Synchæta apus Plate, Zeitschr. Wiss. Zool., vol. 49, 1889, p. 1.

SYNCHÆTA BICORNIS Smith.

Synchæta bicornis Smith, Trans. Amer. Micr. Soc. (for 1903), vol. 25, 1904, p. 121, pl. 18.

SYNCHÆTA CECILIA Rousselet.

Synchæta cecilia Rousselet, Journ. Royal Micr. Soc., 1902, p. 406, pl. 7, fig. 16.

SYNCHÆTA CURVATA Lie-Pettersen.

Synchæta curvata Lie-Pettersen, Bergens Mus. Aarb., 1905, No. 10, p. 27, pl. 1, fig. 8, text fig. 2.

SYNCHÆTA FENNICA Rousselet.

Synchæta fennica Rousselet, Journ. Royal Micr. Soc., 1909, p. 170, pl. 5, fig. 1.

SYNCHÆTA GRANDIS Zacharias.

Synchæta grandis Zacharias, Forschungsber. Biol. Stat. Plön, vol. 1, 1893, p. 23, pl. 1, fig. 2.

SYNCHÆTA GYRINA Hood.

Synchæta gyrina Hood, Sci. Goss., vol. 23, 1887, p. 149, fig.

SYNCHÆTA KITINA Rousselet.

Synchæta kitina Rousselet, Journ. Royal Micr. Soc., 1902, p. 395, pl. 4, fig. 6.

SYNCHÆTA LITTORALIS Rousselet.

Synchæta littoralis Rousselet, Journ. Royal Micr. Soc., 1902, p. 398, pl. 7, fig. 15.

SYNCHÆTA LONGIPES Gosse.

Synchæta longipes Gosse, Journ. Royal Micr. Soc., 1887, p. 5, pl. 2, fig. 15.

SYNCHÆTA NEAPOLITANA Rousselet.

Synchæta neapolitana Rousselet, Journ. Royal Micr. Soc., 1902, p. 410, pl. 5, fig. 9.

SYNCHÆTA OBLONGA Ehrenberg.

Synchæta oblonga Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 135.
Synchæta neglecta Zacharias, Biol. Centralbl., vol. 21, 1901, p. 382.

SYNCHÆTA PECTINATA Ehrenberg.

Synchæta pectinata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 135.
Synchæta mordax Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 200.
Hydatina pectinata Acloque, Faune de France, vol. 4, 1899, p. 247.

SYNCHÆTA STYLATA Wierzejski.

Synchæta stylata Wierzejski, Bull. Acad. Sci. Cracovie (for 1892), 1893, p. 404.

SYNCHÆTA TAVINA Hood.

Synchæta tavina Hood, Int. Journ. Micr. Nat. Sci., vol. 12, 1893, p. 382, pl. 17.

SYNCHÆTA TREMULA (Müller).

Vorticella tremula Müller, Anim. Infus., 1786, p. 289, pl. 41, figs. 4–7.
Monocerca vorticellaris Bory de St. Vincent, Class. Anim. Micr., 1826, p. 69= *Vorticella tremula* renamed.
Furcularia tremula Blainville, Dict. Sci. Nat., vol. 60, 1830, p. 152.
Synchæta tremula Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 135.
Synchæta truncata v. Hofsten, Arch. Zool., Stockholm, vol. 6, No. 1, 1909, p. 36= *Synchæta tremula* renamed.

v. Hofsten considers *Vorticella tremula* Müller different from *Synchæta tremula* of Ehrenberg, and renames the latter. This seems unnecessary. In the case of these old names we must accept the assertions of successive authors, that they have recognized the older species, unless we are in a position to prove their identification erroneous. If we did not, we would have to make a fresh start about every 25 years, and it is not evident that we would be any better off.

SYNCHÆTA TRIOPHTHALMA Lauterborn.

Synchæta triophthalma Lauterborn, Wissensch. Meeresunters., n. ser., vol. 1, 1894, p. 212, fig. 1.

SYNCHÆTA VORAX Rousselet.

Synchæta vorax Rousselet, Journ. Royal Micr. Soc., 1902, p. 408, pl. 8, fig. 19.

Genus TAPHROCAMPA Gosse.

Taphrocampa Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 199.
Type (monotype).—*Taphrocampa annulosa* Gosse.

TAPHROCAMPA ANNULOSA Gosse.

Taphrocampa annulosa Gosse, Ann. Mag. Nat. Hist., ser. 2, vol. 8, 1851, p. 199.

TAPHROCAMPA CLAVIGERA Stokes.

Taphrocampa clavigera Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 18, 1896, p. 18, pl. 7, fig. 2.

TAPHROCAMPA SELENURA Gosse.

Taphrocampa selenura Gosse, Journ. Royal Micr. Soc., 1887, p. 1, pl. 1, fig. 1
Taphrocampa viscosa Levander, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 26, pl. 2, fig. 14.

Insufficiently described:

Taphrocampa levinseni Bergendal, Acta Univ. Lundensis, vol. 28, 1892, sect. 2, No. 4, p. 48, pl. 2, fig. 12.

Genus TESTUDINELLA Bory de St. Vincent.

Testudinella Bory de St. Vincent, Class. Anim. Micr., 1826, p. 85.
Type (by present designation).—*Testudinella clypeata* (Müller)=*Brachionus clypeatus* Müller.

TESTUDINELLA BIDENTATA (Ternetz).

Pterodina bidentata Ternetz, Rotat. Umg. Basels, 1892, pp. 20, 44, p. 3, fig. 23.
Pterodina emarginata Wierzejski, Bull. Acad. Sci. Cracovie, (for 1892) 1893, p. 407.
Pterodina calcaris Langer, Verh. Ver. Nat.-u. Heilkde., Pressburg, n. ser. vol. 19, 1909, p. 46, fig. 3.

TESTUDINELLA CÆCA (Parsons).

Pterodina cæca Parsons, Journ. Quekett Micr. Club, ser. 2, vol. 4, 1892, p. 379, pl. 25, fig. 3.

TESTUDINELLA CLYPEATA (Müller).

Brachionus clypeatus Muller, Anim. Infus., 1786, p. 339, pl. 48, figs. 11–14.
Testudinella clypeata Bory de St. Vincent, Class. Anim. Micr., 1826, p. 86.
Pterodina clypeata Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 147.
Pterodina crassa Levander, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 57, pl. 3, fig. 40.

TESTUDINELLA ELLIPTICA (Ehrenberg).

Pterodina elliptica Ehrenberg, Abh. Akad. Wiss. Berlin (for 1833), 1834, p. 217.

TESTUDINELLA INCISA (Ternetz).

Pterodina incisa Ternetz, Rotat. Umg. Basels, 1892, pp. 20, 41, pl. 3, figs. 19, 20.
Pterodina emarginula Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 168, pl. 2, figs. 31, 32.

TESTUDINELLA INTERMEDIA (Anderson).

Pterodina intermedia Anderson, Journ. Asiatic Soc. Bengal, vol. 58, 1889, pt. 2, p. 356, pl. 21, fig. 11.

TESTUDINELLA MUCRONATA (Gosse).

Pterodina mucronata Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 114, pl. 26, fig. 15.

TESTUDINELLA PARVA (Ternetz).

Pterodina parva Ternetz, Rotat. Umg. Basels, 1892, pp. 20, 42, pl. 3, figs. 21, 22.

TESTUDINELLA PATINA (Hermann).

Brachionus patina Hermann, Naturforscher, vol. 19, 1783, p. 48, pl. 2, fig. 10.
Proboskidia patina Bory de St. Vincent, Class. Anim. Micr., 1826, p. 84. Type (monotype) of genus *Proboskidia* Bory de St. Vincent, 1826.
Pterodina patina Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 48. Type (monotype) of genus *Pterodina* Ehrenberg, 1830.
Pterodina valvata Hudson, Monthly Micr. Journ., vol. 5, 1871, p. 26, pl. 72, figs. 1–6.

TESTUDINELLA REFLEXA (Gosse).

Pterodina reflexa Gosse, Journ. Royal Micr. Soc., 1887, p. 3, pl. 1, fig. 8.

TESTUDINELLA TRILOBATA (Anderson and Shephard).

Pterodina trilobata Anderson and Shephard, Proc. Royal Soc. Victoria, n. ser., vol. 4, 1892, p. 79, pl. 12, fig. 7.

TESTUDINELLA TRUNCATA (Gosse).

Pterodina truncata Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 115, pl. 26, fig. 16.

? *Pterodina stenroosi* Runnström, Zool. Anz., vol. 34, 1909, p. 278, fig. 9.

Doubtful or insufficiently described species:

Pterodina magna Bailey, Smiths. Contr. Knowl., vol. 2, 1851, No. 8, p. 42, pl. 3, fig. 19.

Testudinella argula Bory de St. Vincent, Class. Anim. Micr., 1826, p. 85.

Genus TETRAMASTIX Zacharias.

Tetramastix Zacharias, Forschungsber. Biol. Stat. Plön, vol. 6, 1898, p. 132.

Type (monotype).—*Tetramastix opoliensis* Zacharias.

TETRAMASTIX OPOLIENSIS Zacharias.

Tetramastix opoliensis Zacharias, Forschungsber. Biol. Stat. Plön, vol. 6, 1898, p. 132, pl. 1, figs. 6, 7.

THEORUS Ehrenberg.

Theorus Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 47=*Theora* Eyferth, Mikr. Süsswasserbew., 1877, p. 49; not *Theora* Adams, 1864, Mollusca.

Type (monotype).—*Theorus vernalis* Ehrenberg; unrecognizable.

Theorus vernalis Ehrenberg.

Theorus vernalis Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 47.

Theora vernalis Eyferth, Mikr. Süsswasserbew., 1877, p. 50.

Theorus plicatus (Eyferth).

Theora plicata Eyferth, Einf. Lebensf., 1878, p. 83, pl. 5, fig. 16; unrecognizable.

Theorus plicatus Voigt, Süsswasserfauna Deutschlands, pt. 14, 1912, p. 87, text fig.

TINTINNUS Schrank.

Tintinnus Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 317=*Vaginicola* Lamarck, Hist. Nat. Anim. sana Vert., vol. 2, 1816, p. 26.

Type (by present designation).—*Tintinnus inquilinus* (Müller)=*Trichoda inquilinus* Müller; to Protozoa.

Tintinnus inquilinus (Müller).

Trichoda inquilinus Müller, Zool. Danicae Prodr., 1776, p. 281.

Tintinnus inquilinus Schrank, Fauna Boica, vol. 3, pt. 2, 1803, p. 317.

Vaginicola inquilina Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 27.

Type (by present designation) of genus *Vaginicola* Lamarck, 1816.

Genus TRICHOCERCA Lamarck.

Trichocerca Lamarck, Syst. Anim. sans Vert., 1801, p. 394=*Rattulus* Lamarck, Hist. Nat. Anim. sans Vert., vol. 2, 1816, p. 24=*Monocerca* Bory de St. Vincent, Class. Anim. Micr., 1826, p. 69. Compare *Trichocercus* Cuvier.

Type (monotype).—*Trichocerca rattus* (Müller)=*Trichoda rattus* Müller.

TRICHOCERCA BICRISTATA (Gosse).

Mastigocerca bicristata Gosse, Journ. Royal Micr. Soc., 1887, p. 2, pl. 1, fig. 5.

Rattulus bicristatus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 330, pl. 9, figs. 77–80.

TRICHOCERCA BICUSPES (Pell).

Mastigocerca bicuspes Pell, Microscope, vol. 10, 1890, p. 143, fig. 1.
Mastigocerca spinigera Stokes, Ann. Mag. Nat. Hist., ser. 6, vol. 19, 1897, p. 631, pl. 14, fig. 6.
Rattulus bicuspes Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 336, pl. 8, figs. 73–76.

TRICHOCERCA CAPUCINA (Wierzejski and Zacharias).

Mastigocerca capucina Wierzejski and Zacharias, Zeitschr. Wiss. Zool., vol. 56, 1893, p. 242, pl. 13, figs. 11–13.
Mastigocerca hudsoni Lauterborn, Zool. Jahrb., Syst., vol. 7, 1893, p. 266, pl. 11, figs. 5, 6.
Rattulus capucinus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 327, pl. 6, figs. 59–61.

TRICHOCERCA CRISTATA (new name).

Mastigocerca carinata Ehrenberg, Abh. Akad. Wiss. Berlin, 1830, p. 46; not *Rattulus carinatus* of Lamarck. Type (monotype) of genus *Mastigocerca* Ehrenberg, 1830. (Lamarck's name *carinatus* is a substitute for (*Trichoda*) *rattus* Müller.)
Monocerca carinata Eyferth, Mikr. Süsswasserbew., 1877, p. 52, fig. 87.
Acanthodactylus carinatus Tessin, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 156, pl. 2, fig. 15.
Rattulus carinatus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 332, pl. 11, figs. 95–97.

TRICHOCERCA CYLINDRICA (Imhof).

Mastigocera cylindrica Imhof, Zool. Anz., vol. 14, 1891, p. 37.
Mastigocera setifera Lauterborn, Zool. Jahrb., Syst., vol. 7, 1893, p. 271.
Mastigocerca hamata Zacharias, Forschungsber. Biol. Stat. Plön, vol. 5, 1897, p. 8, pl. 1, fig. 7.
Mastigocerca hamata bologoensis Minkiewicz, Zool. Anz., vol. 23, 1900, p. 622, fig. III *a*.
Mastigocerca elegans Meissner, Compt. Rend. Stat. Biol. du Volga (for 1901), 1902, p. 26, pl. 10, figs. 3–5.
Rattulus cylindricus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 325, pl. 7, figs. 62–64.

TRICHOCERCA CYLINDRICA CHATTONI (de Beauchamp).

Rattulus cylindricus chattoni de Beauchamp, Bull. Soc. Zool. France, vol. 32, 1907, p. 154, fig. 3.

TRICHOCERCA ELONGATA (Gosse).

Mastigocerca elongata Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 62, pl. 20, fig. 8.
Mastigocerca grandis Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 144, pl. 2, fig. 8.
Rattulus elongatus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 337, pl. 12, figs. 102–107.

TRICHOCERCA FLAVA (Voronkov).

Rattulus flavus Voronkov, Trudy Otd. Ikht. Obshch. Akklim., vol. 6, 1907, p. 100, pl. 7, figs. 23, 24.

TRICHOCERCA IERNIS (Gosse).

Mastigocerca iernis Gosse, Journ. Royal Micr. Soc., 1887, p. 866, pl. 15, fig. 13.
Acanthodactylus gracilis Tessin, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 155, pl. 2, fig. 14.
Rattulus gracilis Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 321, pl. 5, figs. 45–49.

TRICHOCERCA LATA (Jennings).

Mastigocerca lata Jennings, Bull. Michigan Fish Comm., No. 3, 1894, p. 19, fig. 7.
Rattulus latus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 335, pl. 7, figs. 65, 66.

TRICHOCERCA LONGISETA (Schrank).

Brachionus rattus Schrank, Naturforscher, vol. 27, 1793, p. 33, pl. 3, fig. 20; not *Trichoda rattus* Müller.
Vaginaria longiseta Schrank, Briefe an Nau, 1802, p. 383, pl. 2, fig. 13. Type (by present designation) of genus *Vaginaria* Schrank, Briefe an Nau, 1802, p. 379.
Monocerca bicornis Ehrenberg, Abh. Akad. Wiss. Berlin (for 1831), 1832, p. 131.
Monocerca cornuta Eyferth, Einf. Lebensf., 1878, p. 86, pl. 5, fig. 24.
Mastigocerca bicornis Hudson and Gosse, Rotifera, 1886, vol. 2, p. 63, pl. 20, fig. 5.
Mastigocerca cornuta Hudson and Gosse, Rotifera, Suppl., 1889, p. 35, pl. 33, fig. 21.
Acanthodactylus bicornis Tessin, Arch. Naturg. Mecklenburg, vol. 43, 1890, p. 157.
? *Mastigocerca rosea* Stenroos, Acta Soc. Fauna Flora Fennica, vol. 17, No. 1, 1898, p. 146, pl. 2, fig. 1.
Rattulus longiseta Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 328, pl. 8, figs. 67–72.
? *Rattulus roseus* Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 341, pl. 15, fig. 137.
Mastigocerca auchinleckii Stewart, Rec. Indian Mus. Calcutta, vol. 2, 1908, p. 318, fig. 3.

TRICHOCERCA LOPHŒSSA (Gosse).

Mastigocerca lophœssa Gosse, Hudson and Gosse, Rotifera, 1886, p. 60, pl. 20, fig. 10.
Mastigocerca rectocaudatus Hilgendorf, Trans. New Zealand Inst., vol. 31, 1899, p. 120, pl. 9, fig. 7.
Rattulus lophœssus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 334, pl. 11, figs. 95–99.

TRICHOCERCA MACERA (Gosse).

Mastigocerca macera Gosse, Hudson and Gosse, Rotifera, 1886, vol. 2, p. 61, pl. 20, fig. 12.
Mastigocerca fusiformis Levander, Acta Soc. Fauna Flora Fennica, vol. 12, No. 3, 1894, p. 37, pl. 2, fig. 17.
Rattulus macerus Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 323, pl. 5, figs. 53, 54.

TRICHOCERCA MARINA (Daday).

Diurella marina Daday, Ért. Term. Kör., vol. 19, No. 17, 1890, p. 16, pl. 1, figs. 2, 3, 9, 10.
Mastigocerca dubia Lauterborn, Wissensch. Meeresunters., n. ser., vol. 1, 1894, p. 213, fig. 2.
Rattulus dubius Jennings, Bull. U. S. Fish Comm., vol. 22 (for 1902), 1903, p. 340, pl. 14, fig. 133.
Rattulus henseni Zelinka, Rotat. Plankton-Exped., 1907, p. 19, pl. 2, figs. 1–7.
Rattulus marinus de Beauchamp, Bull. Soc. Zool. France, vol. 32, 1907, p. 148.

TRICHOCERCA MARINA LIE-PETTERSENI (de Beauchamp).

Mastigocerca marina Lie-Pettersen, Bergens Mus. Aarb., 1905, No. 10, p. 35, fig. 4.
Rattulus marinus lie-petterseni de Beauchamp, Bull. Soc. Zool. France, vol. 32, 1907, p. 148.

TRICHOCERCA MICROSTYLA (Daday).

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Vaginaria cuneus SCHRANK, Briefe an Nau, 1802, p. 379, pl. 2, figs. 8–9. ?*Notholca* sp.

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TRICHOCERCUS Cuvier.

In his Leçons d'anatomie comparée, vol. 1, 1800, Cuvier gives in Tableau IX a list of systematic names with their vernacular (French) equivalents. Among these is: Trichocerques–*Trichocercus*. This is apparently intended for Les trichocerques, p. 660 of his Tableau élémentaire de l'histoire naturelle des animaux, 1798, which was published without any systematic name. The passage is as follows:

LES TRICHOCERQUES.

Sont très-voisines des brachions et des rotifères; elles ont une queue à peu près semblable, quelquefois fort longue, ou double, ou fourchue; mais il n'y a point d'écaille sur le dos, et la partie antérieure du corps est seulement garnie d'espèces de poils, et n'a point d'organe rotifère.

It is probable that Lamarck's *Trichocerca* Cuvier, p. 394, Systême des animaux sans vertèbres, 1801, is intended for this also. The description, given below, seems to indicate this.

XLIV Genre. Trichocerque. *Trichocerca* Cuv. Corps très petit, transparent, submultiforme, pourvue d'une queue simple ou fourchue, et de cils ou de poils dans sa partie intérieure.

As Cuvier gives no species, and his description would fit a great many rotifers, it must probably be considered unrecognizable, and Lamarck's name given preference, as it is defined by the type, *Trichoda rattus* Müller.

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Type (by present designation).—*Trichoda anas* Müller; to Protozoa.

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Genus TRICHOTRIA Bory de St. Vincent.

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BF Library of the Bureau of Fisheries.
BS Library of the Bureau of Standards.
GS Library of the Geological Survey.
LC Library of Congress.
NM Library of the United States National Museum.
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Surg Library of the Surgeon General's Office.

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Both parts of this were issued at the same time, but the exact date is somewhat uncertain. An editorial review appeared in Isis (Oken), vol. 25, No. 12, Dec., 1832, col. 1274. As Oken was himself interested in the subject, it is probable that the work was not very old then. An unsigned review in Isis, vol. 26, 1833, col. 734, gives this information:

"Wir haben geglaubt, beyde Titel vollständig mittheilen zu müssen, damit, nach der Verschiedenheit der Wort- und selbst der Jahreszahl, nicht jemand verleitet werden möchte, sie als Titel zweyer verschiedener Werke zu betrachten. Hinsichtlich der nicht übereinstimmenden Jahreszahlen erklärt der Verfasser, dass die Kupfertafeln bereits vor drey Jahren ganz vollendet gewesen wären, die Herausgabe aber, durch die inzwischen vorgenommene russische Reise bis zum Jahre 1831 hätte aufgeschoben werden müssen."

It is evident from this that 1831 is the earliest possible date, and the probability, considering the time of the appearance of Oken's review, is that it was issued for the "Michaelsmesse," the fall book market, in Leipzig, 1832.

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